

# **FORM 3 SET 3 CHAMPIONS K.C.S.E REVISION**

**(14 SUBJECTS INCLUSIVE)**

\*\*\*Service Beyond expectation\*\*\*

**TEL: 0725 733 640 (For this marking Schemes  
and other materials)**

**EMAIL: Cger89@gmail.com**

## **FORM 3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 (14 SUBJECTS INCLUSIVE)**

COMPILED BY MR. CHARLES O. GER

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CHAMPIONS K.C.S.E REVISION SERIES EXECUTIVE  
COORDINATOR/EXAMINER HISTORY/AUTHOR CHAMPIONS K.C.S.E  
REVISION HISTORY AND GEOGRAPHY

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

121/1  
 PAPER 1  
 FORM THREE MATHEMATICS  
 TIME: 2 ½ HOURS

# F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3

*Kenya Certificate of Secondary Education (K.C.S.E)*

**INSTRUCTIONS TO THE CANDIDATES:-**

- Write your **name** and **index number** in the spaces provided above.
- Sign and write the **date** in the space provided above.
- This paper consists **two** sections: **Section I and Section II.**
- Answer **all** the questions in **Section I** and any **five** questions from **Section II.**
- All working and answers **must** be written on the question paper in the spaces provided below each question.
- Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question.
- Non-programmable silent electronic calculators and KNEC mathematical tables may be used, except where stated otherwise.
- Marks may be given for correct working even if the answer is wrong.
- Candidates should check the question paper for error and omissions.

**For Examiners' Use Only.**

**Section I**

|                  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |              |
|------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--------------|
| <b>Questions</b> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | <b>Total</b> |
| <b>Marks</b>     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |              |

**Section II**

|                  |    |    |    |    |    |    |    |    |              |
|------------------|----|----|----|----|----|----|----|----|--------------|
| <b>Questions</b> | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | <b>Total</b> |
| <b>Marks</b>     |    |    |    |    |    |    |    |    |              |

**GRAND TOTAL**

This paper consists of 15 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

**SECTION A (50 MARKS)**

**Answer all questions in this section**

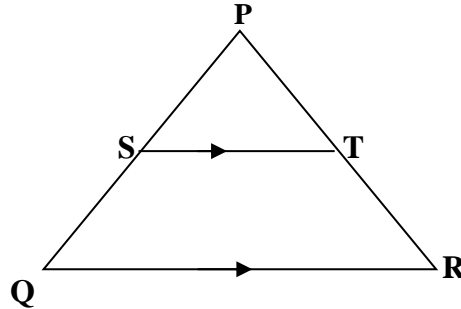
1. Solve the equation  $\frac{x+1}{2} - \frac{x-3}{3} = 4$   
(3mks)

2. Find the equation of a line which passes through (-1,-4) and is perpendicular to the line  $y+2x-4=0$   
(3mks)

3. Given that  $\cos A = \frac{5}{13}$  and A is acute angle. Find  $\tan (90-A)$   
(2mks)

4. Simplify  $\frac{12x^2-16x}{20-11x-3x^2}$   
(4mks)

5. The figure below shows triangle PQR.  $PR=12\text{cm}$   $TR=4\text{cm}$  and  $ST$  is parallel to  $QR$



If the area of triangle PQR is  $336\text{cm}^2$  find the area of the quadrilateral QRTS.  
(4mks)

6. The internal radius of a pipe is  $0.35\text{m}$ . Water flows through the pipe at a rate of  $45\text{cm}$  per second. Calculate the amount of water that passes through the pipe in  $2\frac{1}{4}$  hours in  $\text{m}^3$ .  
(3mks)
7. A car moves with a constant acceleration of  $8\text{m/s}^2$  for 5 seconds. If the final velocity is  $40\text{m/s}$ . calculate the initial velocity.  
(2mks)
8. Simplify without using a calculator  
(3mks)

$$\frac{2\frac{1}{3} - 1\frac{2}{3} \div \frac{5}{9}}{\frac{4}{7} \text{ of } 2\frac{1}{3} - 2\frac{2}{7}}$$

9. Given that 4:5:8 is equivalent to 1:n:bn. Find the ratio of n:b only.  
(3mks)
10. Solve  $32^{2x} \times 4^{x+3} = 128 \div 2^x$   
(3mks)
11. John bought 3 books and 4 pens while Peter bought 4 books and 5 pens of the same type if Peter paid sh. 525 while John paid sh. 125 less than what Peter paid. Calculate the cost of each item. (3mks)
12. A kenyan company received US dollars 100,000. The money was converted into Ksh. in a bank which buys and sells foreign currency as follows

|            |             |
|------------|-------------|
| Buying Ksh | selling Ksh |
|------------|-------------|

1 US dollar      77.24                      77.44

1 sterling pound   121.93                      122.27

(a) Calculate amount of money in Ksh. The company received  
(2mks)

(b) The Company exchanged the Ksh above into sterling pounds. Calculate how much it received to the nearest pound.  
(2mks)

13. (a) Use reciprocal tables to find the value of  $= \frac{1}{0.325}$   
(1mk)

(b) Hence, evaluate  $\sqrt[3]{\frac{0.000125}{0.325}}$   
(2mks)

14. A point  $(2,3)$  is mapped onto  $(0,5)$  when rotated through angle of rotation  $180^\circ$  about centre  $(x,y)$ . Find the coordinates of the centre.  
(3mks)
15. A square room is covered by a number of whole rectangular slabs of sides 60cm by 42cm. Calculate the least possible area of the room in square metres  
(3mks)
16. Using a ruler and pair of compasses only
- (a) Construct a parallelogram PQRS in which  $PQ = 6\text{cm}$   $QR = 4\text{cm}$  and  $\angle SPQ = 75^\circ$   
(3mks)
- (b) Determine the perpendicular distance between PQ and SR  
(1mk)

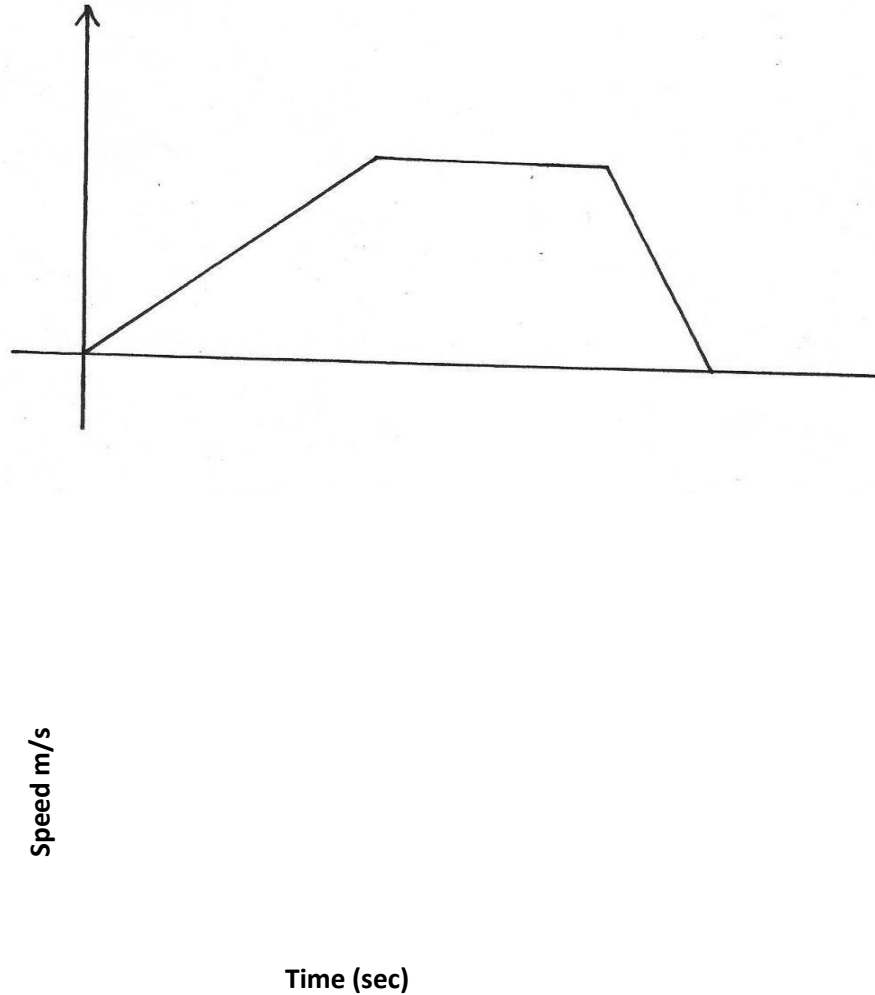
**SECTION II (50 MARKS)**

*Answer any five questions in this section in the spaces provided*

17. A solid consists of a cone and a hemisphere. The common diameter of the cone and hemisphere is 12cm and the slanting height of the cone is 10cm
- (a) Calculate the
- (i) surface of the solid to 2 d.p  
(3mks)
  - (ii) the volume of the solid to 2 d.p  
(4mks)
- (b) If the density of the material used to make the solid is  $1.3\text{g/cm}^3$ , calculate its mass in kilograms.  
(3mks)



18. A cyclist moves from O to P covering a total distance of 3.75km. The cyclist starts from rest, accelerates uniformly for 240sec before moving at a constant speed for 100 sec and finally decelerates uniformly for 60 sec



- (a) Determine the maximum speed attained by the cyclist.  
(3mks)

(b) Calculate the deceleration of the cyclist.  
(2mks)

(c) Calculate distance in metres, the cyclist travelled over the last 40 seconds  
(2mks)

(d) Determine the time in seconds, the cyclist took to travel  $\frac{3}{5}$  of the journey  
(3mks)

19. Three trees R S and T are the vertices of a triangular field. R is 300m from S on a bearing of  $300^\circ$  and T is 450m directly south of R

(a) Using scale of 1cm rep 60m draw a diagram to show the positions of the trees.  
(3mks)

(b) Use the scale to determine

(i) the distance between T and S in metres  
(2mks)

(ii) the bearing of T from S  
(1mk)

(c) Find the area of the field, in hectares to 1 d.p  
(4mks)

20. Two alloys A and B are each made up of copper, Zinc and tin. In alloy A, the ratio of copper to zinc is 3:2 and the ration of zinc to tin 3:5

(a) Determine the ratio Copper: Zinc: tin in alloy A  
(2mks)

(b) The mass of alloy is 250kg. alloy B has the same mass as alloy A but the amount of copper is 30% less than that of alloy A

Calculate

(i) the mass of tin in alloy A  
(2mks)

(ii) The total mass of zinc and tin in alloy B  
(3mks)

- (c) Given that the ratio of zinc to tin in alloy B is 3:8 determine the amount of tin in alloy B than in alloy A  
(3mks)

21. The table below shows the height of mango trees

|        |       |       |       |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 |
| Freg.  | 2     | 15    | 18    | 25    | 30    | 6     | 3     | 2     |

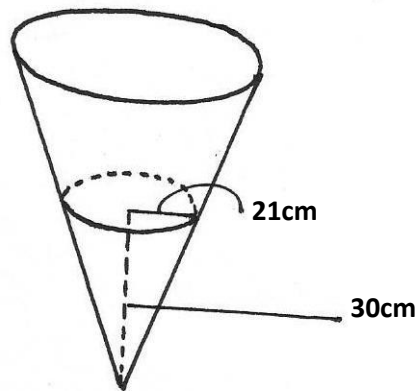
- (a) State the modal class  
(1mk)

(b) Calculate to 2 d.p

(i) The mean height  
(4mks)

(ii) The difference between the median height and the mean height  
(5mks)

22. The diagram below represents a conical vessel containing water to a depth of 30cm. the radius of the water surface is 21cm ( $\pi = \frac{22}{7}$ )



(a) Calculate the volume of the water in the vessel in  $\text{cm}^3$   
(2mks)

(b) Metal sphere is completely submerged in the water the level of water rises by 6cm

Calculate

(i) Radius of the new surface in the vessel  
(2mks)

(ii) The volume of the metal sphere in  $\text{cm}^3$   
(3mks)

(iii) The radius of the sphere  
(3mks)

23. (a) The ratio of Juma's and Akinyi's earnings was 5:3. Juma's earnings rose to sh.8400 after an increase of 12%.

(a) Calculate the percentage increase in Akinyi's earnings given that the sum of their new earnings is shs. 14,100.  
(6mks)

(b) Juma and Akinyi contributed all the new earnings to buy maize at 1175 per bag. The maize was then sold at shs.1762.50. The two shared the money from the sales of the maize in ratio of their contributions. Calculate the amount that Akinyi got.  
(4mks)

24. A triangle ABC has vertices A(3,4) B(1,3) and C(2,1)

(a) On the grid given draw triangle ABC  
(1mk)

(b) Draw triangle A'B'C' the image of  $\Delta ABC$  under rotation of  $+90^\circ$  about (0,0) and give its coordinates  
(2mks)

(c) Draw triangle  $A''B''C''$  the image of  $\Delta A'B'C'$  under reflection in the line  $y=x$  and give its coordinates

(3mks)

(d) By construction, find the triangle  $A'''B'''C'''$  the image of  $\Delta A''B''C''$  after enlargement scale factor  $-2$  centre  $(0,-1)$

Give coordinates of the image  $A'''B'''C'''$

(4mks)

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PAPER 2

FORM THREE MATHEMATICS

TIME: 2 ½ HOURS

## F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3

*Kenya Certificate of Secondary Education (K.C.S.E)*

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1. Use tables of logarithms to evaluate  $\left[ \frac{6.195 \times 11.82}{83.52} \right]^{\frac{1}{4}}$   
(3mks)

2. Solve the quadratic equation below  $= \frac{4}{25}x^2 + \frac{4}{5}x + 1 = 0$   
(3mks)

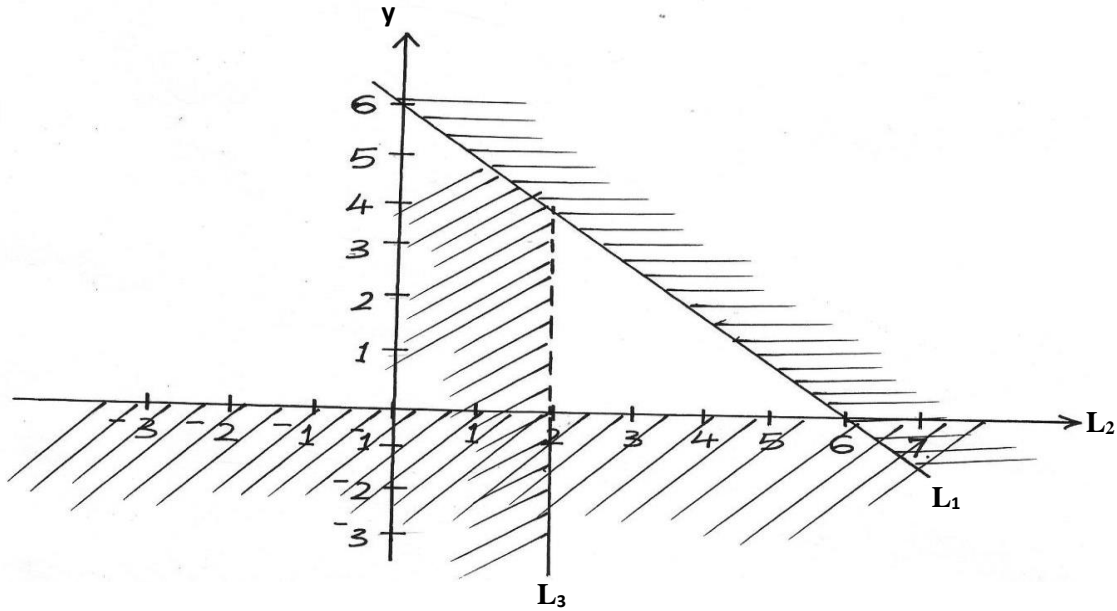
3. A box measures 6.4cm by 4cm by 5cm. find the limits within which its volume lies  
(3mks)

4. Ingwe and Okusimba live 8km apart. They left their homes at the same time and cycled at 8km/h and 7km/h respectively towards each other. Calculate the time they took before meeting.  
(2mks)

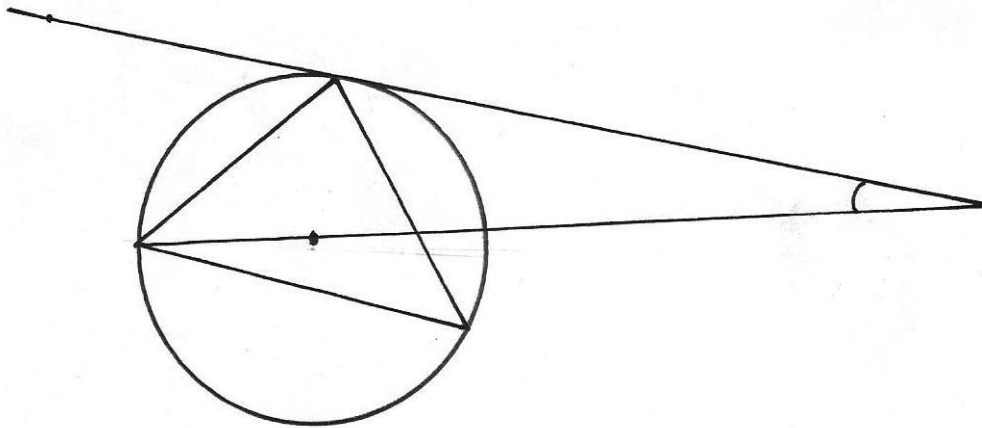
5. Given that  $\sqrt{2} = 1.414$  and  $\sqrt{3} = 1.732$  evaluate  $\frac{5}{2\sqrt{2}-\sqrt{3}}$   
(3mks)

6. Solve for x the equation  $\log_2(x+3) = \log_2(x-2)$   
(2mks)

7. Give the inequalities that define the unshaded area



8. In the figure below R, T and S are points on a circle centre O. PQ is a tangent to the circle at T, POR is a straight line and  $\angle QPR = 20^\circ$ . Find the size of  $\angle RST$



(3mks)

T

Q

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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R

O

$20^\circ$

P

9. The size of interior angle of a regular polygon is  $3x^\circ$  while its exterior angle is  $(x-20)$ .  
Find the number of sides of the polygon.  
(3mks)

10. Make  $h$  the subject of the formula  
(3mks)

$$q = \frac{1+rh}{1-ht}$$

11. The third and the fifth term of an arithmetic progression are 10 and -10 respectively
- (a) Determine the first and the common difference  
(2mks)
- (b) The sum of the first 15 terms  
(2mks)
12. A watch which loses a half –minute every hour was set to read the correct time at 0545h on Monday. Determine the time in the 12 hour system, the watch will show on the following Friday at 1945h.  
(3mks)
13. (a) Expand  $(1+x)^7$  up to the 4<sup>th</sup> term  
(2mks)

(b) Use the expression in part (a) above to find the approximate value of  $(0.94)^7$   
(2mks)

14. Given that X varies directly as the square of y and  $x=2$  when  $y=1$ , find x when  $y=4$   
(2mks)

15. A tea dealer mixes two brands of tea, x and y to obtain 35kg of the mixture worth Ksh.62 per kg. if brand x is valued at Ksh.68 per kg and brand y at Ksh 53 per kg . Calculate the ratio in its simplest form they are mixed.  
(3mks)

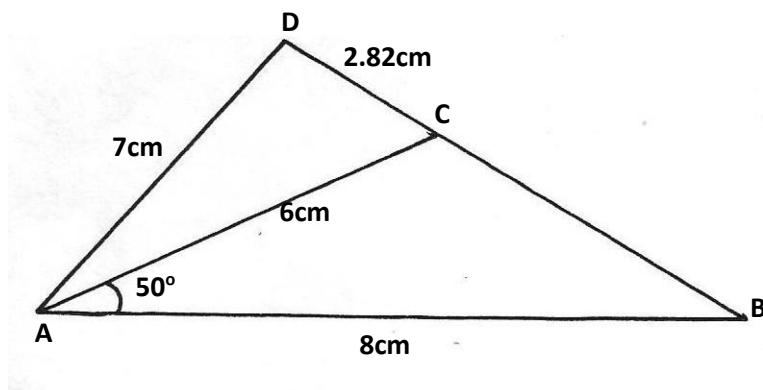
16. Obtain the centre and radius of the circle represented by the equation  $x^2 + y^2 - 10y + 16 = 0$

(3mks)

**SECTION II (50 MARKS)**

*Answer any five questions in this section in the spaces provided*

17. In the figure below (not drawn to scale),  $AB=8\text{cm}$ ,  $AC=6\text{cm}$ ,  $AD=7\text{cm}$ ,  $CD=2.82\text{cm}$  and angle  $CAB=80^\circ$



Calculate to 2 decimal places

- (a) the length BC  
(2mks)



(b) the size of angle ABC  
(3mks)

(c) the size of angle CAD  
(3mks)

(d) the area of triangle ACD  
(2mks)

18. At the beginning of the year 1998, Okubasu bought two houses, one in Kakamega and other one in Mumias, each at Ksh.1,240,000 value of the house in Kakamega appreciated the rate of 12%
- (a) Calculate the value of the house in Kakamega after 9 years, to the nearest shillings  
(2mks)

(b) After  $n$  years, the value of the house in Kakamega was Ksh. 2741245 while the value of the house in Mumias was Ksh. 2917231

(i) Find  $n$

(4mks)

(ii) Find the annual rate of appreciation of the house in Mumias

(4mks)

19. (a) Draw the graph for the function  $y = -x^2 + 4x - 1$  for  $-2 \leq x \leq 6$   
(5mks)
- (b) On the same axes draw the graph of  $y = 2x - 3$   
(1mk)
- (c) Use your graph to solve the following equation
- (i)  $x^2 - 4x + 1 = 0$   
(2mks)
- (ii)  $x^2 - 2x - 2 = 0$   
(2mks)

20. Using a ruler and pair of compasses only, construct a parallelogram PQRS in which  $PQ=8\text{cm}$ ,  $PS=5\text{cm}$  and angle  $SPQ=45^\circ$

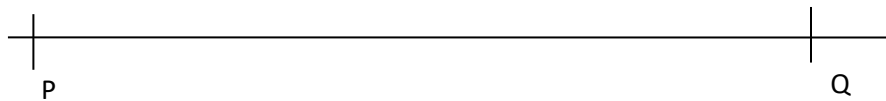
(a) Measure SQ

(b) (i) Construct a perpendicular bisector of the line S and Q

(ii) Construct a perpendicular bisector of line QR to meet the one constructed in b(i) above at

point O.

(iii) Draw a circle passing through points S, Q and R and measure its radius



21. (a) Find  $A^{-1}$ , the inverse of matrix  $A = \begin{pmatrix} 5 & 6 \\ 7 & 9 \end{pmatrix}$

(2mks)

(b) Asira bought 5 books and 6 sets for a total of Ksh. 2440. Awino bought 7 books and 9 sets for a total of Ksh. 3560.

(i) Form a matrix equation to represent the information

(1mk)

(ii) Use matrix method to find the price of a book and that of a set.

(3mks)

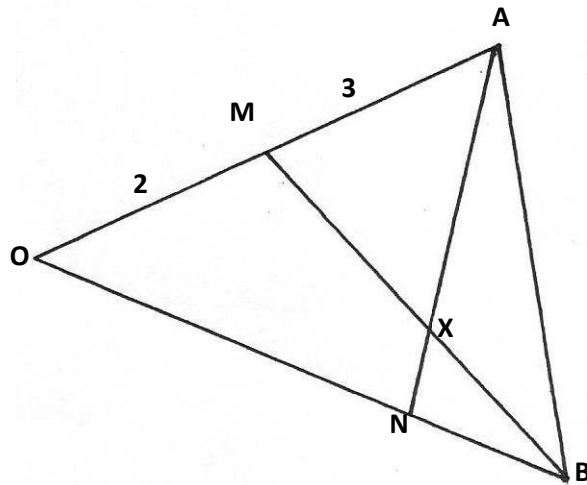
(c) A school bought 36 books and 50 sets. A discount of 5% was allowed on each book whereas

8% on each set. Calculate the percentage discount on the cost of all the items bought by the

school

(4mks)

22. The figure below shows triangle OAB in which M divides OA in the ratio 2:3 and N divides OB in the ratio 4:1



(a) Given that  $\vec{OA} = \underline{\underline{a}}$  and  $\vec{OB} = \underline{\underline{b}}$ , express in terms of  $\underline{\underline{a}}$  and  $\underline{\underline{b}}$

(i)  $\vec{AN}$   
 (1mk)

(ii)  $\vec{BM}$                                    $\longrightarrow$                                    $\longrightarrow$   
 (1mk)

(b) Express OX in terms of a, b, t and s given that AX = sAN and BX = tBM and t and s are constants

(2mks)

(c) Find the value of  $s$  and  $t$  hence write OX in terms of  $a$  and  $b$   
(6mks)

23. The probability that Hillary, Leonard and Charles will be late for breakfast on any one morning are  $\frac{1}{4}$ ,  $\frac{1}{3}$  and  $\frac{1}{5}$  respectively on any one morning

(a) Draw a probability tree diagram to represent the information.  
(2mks)

(b)(i) none of them will be late  
(2mks)

(ii) Only one of them will be late  
(2mks)

(c)(i) at least one of them will be late  
(2mks)

(ii) at most one of them will be late  
(2mks)

24. A hot water tap can fill a bath in 5 minutes while a cold water tap can fill the same bath in 3 minutes. The drain pipe can empty the full bath in  $3\frac{3}{4}$  minutes. The two taps and the drain pipe are fully open for  $1\frac{1}{2}$  min after which the drain pipe is closed. How much longer will it take to fill the bath?  
(10mks)



**101/1**

**ENGLISH**

**PAPER 1: FUNCTIONAL SKILLS**

**TIME: 2 HOURS**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**  
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# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

## **Instructions to candidates**

- a) Write your name and index number in the spaces provided.
- b) Sign and write the date of the examination.
- c) Answer all the questions in this question paper
- d) All your answers must be written in the spaces provided.
- e) Candidates should answer all the questions in English.

| <b>QUESTIONS</b> | <b>MAXIMUM<br/>SCORE</b> | <b>CANDIDATE'S<br/>SCORE</b> |
|------------------|--------------------------|------------------------------|
| 1                | 20                       |                              |
| 2                | 10                       |                              |
| 3                | 30                       |                              |
| <b>TOTAL</b>     |                          |                              |

1. Imagine you had some guests from Sweden who visited you to celebrate your birthday. They enjoyed the special meal that you had prepared for them. One of them has requested for the recipe. Send it by e-mail. (20mks)

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-----  
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## 2. CLOZE TEST

The broadened freedom of speech bestowed upon people ----- the rise of social media platforms does have its merits, as many now -----a platform where they can ----- their concerns about injustices within the society. -----, everything has its good things and bad things as ----- . The freedom on social media has also rendered these avenues -----grounds for hate ----- . Many use it to promote their bigoted ideology. They encourage hatred ----- warring individuals or parties simply because they are ----- to the views, beliefs, or behavior that differ from ----- .

## 3. ORAL SKILLS

**Read the oral poem below and respond to the questions that follow.**

### A BAREFOOT BOY

A barefoot boy! I mark him at his play...  
For May is here once more, and so is he,...  
His dusty trousers, rolled half to the knee,  
And his bare ankles grimy, too, as they:  
Cross- hatchings of the nettle, in array  
Of feverish stripes, hint vividly to me  
Of woody pathways winding endlessly  
Along the creek, where even yesterday  
He plunged his shrinking body – gasped and shook  
Yet called the water ‘warm’ with never lack  
Of joy. And so, half enviously I look

Upon this graceless barefoot and his track,...  
His toe stubbed..., his big toe-nail knocked back  
Like unto the clasp of an old pocketbook.

i) Identify and illustrate two devices that make the poem musical. (2mks)

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ii) How would you effectively recite line 13 of this poem? (2mks)

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iii) Which word would you stress in line 12? Give a reason. (2mks)

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b) One of the features in listening skills is maintaining a meaningful eye-contact with the speaker. Why do you think it is important to do so? (3mks)

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c) Consider the following oral literature item.

Mi moet moet a moita (There is a wound in a calf's stomach)

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

i) Classify the above genre (1mk)

-----  
-----

ii) Identify and illustrate two features of sound in the above genre. (2mks)

-----  
-----

-----Explain what is lost if the item above is translated from its original language. (2mks)

-----  
-----

-----Give one role of the above item (1mk)

-----  
-----

d) Underline the silent letter(s) in the following words (3mks)

i) sword iv) bouquet

ii) debris v) victual

iv) grandmother vi) corps

e) Which is the odd one out in the following groups of words based on the underlined sounds? (3mks)

a) beer                  bare                  bear                  pair

b) tough                  giraffe                  dough                  photograph

c) honest                  honour                  heifer                  heir

f) For each below, provide another that is identical in pronunciation. (4mks)

i) clue    iii) board

ii) sole

iv) tear

e) Imagine you are the leader of a discussion group in your class. How would you ensure that the discussion is fruitful. (5mks)

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**102/2**

**ENGLISH**

**PAPER 2**

**PRE-TRIALS MAY 2019**

**TIME: 2 ½ HOURS**

**(Comprehension, Literary Appreciation & Grammar)**

**F3 SET 3 CHAMPIONS HOLIDAY EXAMS  
2020  
FORM 3**

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**INSTRUCTIONS.**

- **Answer ALL the questions in the question paper**
- **All your answers MUST be written in the spaces provided.**

**FOR EXAMINERS USE ONLY.**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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| <b>QUESTION</b> | <b>MAXIMUM SCORE</b> | <b>CANDIDATE'S SCORE</b> |
|-----------------|----------------------|--------------------------|
| 1               | 20                   |                          |
| 2               | 25                   |                          |
| 3               | 20                   |                          |
| 4               | 15                   |                          |
| <b>TOTAL</b>    | <b>80</b>            |                          |

1. UNSEEN TEXT

20 MARKS

*Read the passage below and then answer the questions that follow.*

You may think that expecting food to change your life is too much to ask. But have you considered that eating the right food at the right time will increase energy, help you manage weight and ward off major illness?

Researchers have found that eating a meal is with plenty of protein leaves you feeling more satisfied for longer when compared to a meal loaded with low – quality carbohydrates. Your body takes longer to digest protein, leading to a gradual increase in blood sugar. The high protein breakfast will therefore carry you through the morning and more importantly, through your tea break. Many high carbohydrate meals are absorbed quickly and send blood sugar on a roller coaster ride, taking your appetite with it and depleting your energy.

Many foods contain antioxidants, but fruits and vegetables may be the richest source. Behaving like chemical warriors, antioxidants neutralize molecules known as free radicals before they damage arteries and body cells. This protects you from heart diseases, high blood pressure, cancer and diabetes. You can now see why antioxidant foods should be consumed in generous portions.

Actually, forget pills – antioxidants work best when consumed in foods. Infact, nutritionists recommend that we eat five portions of fruit and vegetables a day. Its less daunting than it sounds: a portion equals a piece of fruit, three tablespoons of cooked vegetables or a glass of fresh juice.

And do you desire to relive yourself of some baggage? Calcium is the latest weight – loss star to appear on the scene. Scientists stumbled on its magic by accident. From study that measured the blood pressure of obese people. It was discovered that those who took one large tub of yoghurt a day in their diet lost an average of eleven pounds of body fat in one year, even though they did not eat less.

A follow-up study found that people on a high calcium diet lost weight and fat than did people on a low-calcium diet – and again, both consumed the same number of calories. Researchers believe calcium encourages fat cells to stop “getting father” instead, the cells burn extra fat without you having to go anywhere near a gymnasium.

It probably sounds strange to say that you can eat more in order to lose weight. Obviously, the question you should ask immediately is, “eat more of what?” We are talking about food rich in fiber. They have what is referred ot as low-energy density; that translates too few calories relatives to weight. This meant that you can down a mountain without fear of calories overload.



Fiber also aids weight loss because its filling. Most high – fiber foods take a lot of chewing triggering your body’s fullness sensors. Moreover, you absorb the food more slowly so you feel full longer.

Will the wonders of food ever cease? Not if researchers in nutrition keep their pace. Let them keep the good news flowing – such as fact that we don’t have to starve ourselves to lose weight and keep diseases at bay.

*(adapted from Reader’s Digest, January 2004)*

- a) From the information given in the first paragraph, how can you improve your life?  
(1mark)

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- b) In not more than 35 words, summarize the effects of eating carbohydrates  
(4marks)

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- c) Explain how free radicals contribute to the occurrence of high blood pressure and cancer  
(2marks)

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- d) In what two forms can antioxidants be consumed?  
(2marks)

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- e) In fact, nutritionists recommend that we eat five portions of fruit and vegetable a day”. Add a question tag. (1mark)

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- f) What is the attitude of the author towards calcium as a weight – cutting measure? (3marks)

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- g) According to the passage, how can you use up excess fat? (2 marks)

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- h) Identify an instance of irony in the passage (2 marks)

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i) Explain the meaning of the following expressions as used in the passage (3 marks)

a) Daunting

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b) Baggage

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c) Down a mountain.

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**2. LITERARY APPRECIATION (25 MARKS)**

**A Doll's House by Henrik Ibsen**

*Read the following excerpt and answer the questions that follow.*

Krogstad: Are you aware that is a dangerous confession?

Nora: in what way? You shall have your money soon

Krogstad: let me ask you a question: why did you not send the paper to your father?

Nora: It was impossible; papa was so ill. If I had asked him for his signature, I should have had to tell him what the money was to be used for, and when he was so ill himself, I couldn't tell him that my husband's life was in danger – it was impossible.

Krogstad: It would have been better for you if you had given up your trip abroad.

Nora: I couldn't take that into account; I didn't bear you, because you put so many

heartless difficulties in my way, although you knew what a dangerous condition my husband was in.

Krogstad: Mrs. Helmer, you evidently do not realize clearly what it is that you have been guilty of. But I can assure you that my one false step, which lost me all my reputation, was nothing more or nothing worse than what you have done.

Krogstad: The law cares nothing about motives

Nora: Then it must be a very foolish law

Krogstad: Foolish or not, it is the law by which you will be judged, if I produce this paper in court.

Nora: I don't believe it. Is a daughter not to be allowed to spare her dying father anxiety and care? Is a wife not to be allowed to save her husband's life? I don't know much about law; but I am certain that there must be laws permitting such things as that. Have you no knowledge of such laws – you who are a lawyer? You must be a very poor lawyer, Mr. Krogstad.

Krogstad: Maybe. But matters of business – such as you and I have had together do you think I don't understand that? Very well. Do as you please. But let me tell you this – if I lose my position a second time, you shall lose yours with me. (He bows, and goes out through the hall).

Nora: (appears buried in thought for a short time, then losses her head) Nonsense! Trying to frighten me like that! – I am not so silly as he thinks. (begins to busy herself putting the children's thing in order) And yet - ? No, its impossible! I did it for love's sake.

### Questions.

1. What dangerous confession is Krogstad referring to? 4marks
  
2. What social order can be deduced from the statement below:-  
Nora: It was impossible; papa was so ill. If I had asked for his signature, I should have had to tell him what the money was to be used for;..... 2marks

3. The law cares nothing about motives.  
Supply a word (that has similar meaning to the underlined word) 1mark
4. Change the following statement into reported speech 1mark  
Krogstad; ..... why did you not send the paper to your father?
5. In summary form, explain the difficulties that were put in Nora's way by Krogstad. 4marks
6. State and explain any one theme evident in the except 2marks
7. Suggest, with evidence, how the laws could be changed. 3  
marks
8. Give one character trait of the following 4  
marks  
i) Nora  
ii) Krogstad

9. Identify and explain any stylistic device used in the excerpt  
marks 2

10. Explain what happens immediately after this excerpt. 2marks

### QUESTION 3.

*Read the song below and answer the questions that follow:*

LISTEN DEAR BRIDE

Oh my sister, listen

From this day, you won't go dancing

From this day, you won't go to the dance

From this day, you won't go dancing

You'll dance only on the path to the river

My sister, will you listen?

From this day, you won't go chatting

From this day, you won't sit to chat

From this day, you won't sit chatting

You; only chat on the path to the farm

Daughter of my mother, listen!

From this day, you won't enjoy teasing

From this day, you won't enjoy to tease.

From this day, you won't enjoy teasing,

You'll only tease the baby on your lap,

Listen, my dear sister!

You'll only dance on the path to the river,

You'll only chat on the path to the farm,

You'll only tease the baby on your lap,

From this day, life will change

Have you heard daughter of my mother?

You'll not go dancing, dance today

You'll not go sit chatting, chat today,  
You'll not enjoy teasing, tease today,  
From this day, life will change.

1. With explanation, classify the above item. 2marks

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2. Who do you think are the singers in this song? Give reasons 3marks

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3. Identify two features which qualify this text as a song 4marks

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4. Briefly explain what the society expects of a married woman as brought out in the song. 2marks

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5. Giving illustrations, give two functions of this song 2marks

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6. According to the song, how do you think the bride will behave when this song is sung? 2marks

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7. Explain the relationship between stanzas. 2marks

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8. Explain the effect/ impact of the phrase ‘daughter of my mother’ instead of ‘my sister’ 1mark

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9. Add an appropriate question tag to the statement below 1mark  
a) Listen, my sister

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b) You’ll only dance on the way to the river

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**Q4. GRAMMAR**

**15MKS**

A. For each of the underlined words give one word to replace all of them (3 marks)

i) There are still some tickets available for the afternoon show



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ii) Peter and Janet want to watch a play without a speech

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iii) The publication which is published at intervals sold at most bookshops.

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B. Change the following into reported speech. (2 marks)

i) 'We don't know the way. Do you?' he asked

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ii) Someone's coming 'he said. ' Get behind the curtains'.

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C. Replace the underlined word with a phrasal verb (3 marks)

i) This report confirms my theory.

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ii) When he took a gun out we retreated nervously.

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iii) My plans to go to the United Kingdom failed to materialize because the journey turned out to be much more expensive than I had expected.

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D. Fill in the blank spaces with the correct prepositions. (2 marks)

- i) They were interrogated \_\_\_\_\_ receiving stolen goods.  
ii) He would think it \_\_\_\_\_ him to tell a lie.

E. Give the meaning of the idiomatic expressions used in the following sentences (3marks)

i) My father always had Dutch courage

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ii) When he was accused of stealing, he decided to go at it hammer and tongs.

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iii) When Wanjiru went to France she decided to play fast and loose.

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F. The following sentence has misspelt words identify them and write them correctly.

(2marks)

i) The Professor's pronunciation was articulate

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**102/3**  
**ENGLISH**  
**PAPER 2**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**  
**Page 51 of 293**

**PRE-TRIALS MAY 2019**

**TIME: 2 ½ HOURS**

**(Creative Composition and Essays Based on Set Texts)**

**F3 SET 3 CHAMPIONS HOLIDAY EXAMS  
2020  
FORM 3**

*Kenya Certificate of Secondary Education (K.C.S.E)*

**INSTRUCTIONS TO CANDIDATES**

- (a) Answer three questions only
- (b) Questions 1 & 2 are compulsory
- (c) Where the candidate presents work on more than one optional text, only the first one to appear will be marked
- (d) Each of your essays must not exceed 450 words
- (e) This paper consists of 2 printed pages
- (f) Candidates should check the questions to ascertain that all the pages are printed as indicated that no questions are missing.
- (g) Candidates must answer the questions in English

**FOR EXAMINERS USE ONLY.**

| <b>QUESTION</b> | <b>MAXIMUM SCORE</b> | <b>CANDIDATE'S SCORE</b> |
|-----------------|----------------------|--------------------------|
| 1               | 20                   |                          |
| 2               | 20                   |                          |
| 3               | 20                   |                          |
| <b>TOTAL</b>    | <b>60</b>            |                          |

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

## QUESTION 1

(20 MARKS)

### IMAGINATIVE COMPOSITION

- a) Write a story beginning with.  
“We have ten minutes to wait,” whispered the big man to his companion

Or

- b) Write a composition explaining how young people can overcome tribalism in Kenya.

## QUESTION 2

(20 MARKS)

### *The compulsory Set Text; OLE KULET; BLOSSOMS OF THE SAVANNA*

H. R. Ole Kulet. The Blossoms of the Savannah “Strong Selfless friendship is the remedy to stormy times”. Using the lives of Taiyo and Resian, write a composition to illustrate the truthfulness of the statement.

## QUESTION 3

(20 MARKS)

The optional Set Text

- a) The Novel

### **John Steinbeck, The Pearl**

“Fortune can sometimes lead us to calamities and bad omens”, Discuss this statement, with reference to The Pearl by John Steinbeck.

**102/1**

**KISWAHILI**

**Karatasi 1**

**Muda: Saa 1<sup>3</sup>/<sub>4</sub>**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

*Kenya Certificate of Secondary Education (K.C.S.E)*

Andika insha MBILI. Insha ya KWANZA ni ya LAZIMA.

Chagua insha moja nyingine kutoka tatu zilizobaki.

Kila Insha isipungue maneno 400.

Kila Insha ina alama 20.

**INSHA 102/1**

**1. Lazima :**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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Wewe ni mwenyekiti wa jopo lililoteuliwa kuchunguza chanzo cha utovu wa usalama kijijini Sokoto. Andika ripoti maalum /rasmi kuhusu jambo hili.

2. Magonjwa mengi yanasababishwa na mitindo ya kisasa ya maisha.  
Jadili.
3. Tunga kisa kitakachodhihirisha maana ya methali: Mchagua nazi hupata koroma.
4. Andika insha itakayoanza kwa maneno haya:

Milipuko mikubwa ilisikika pu! Pu! Puu! Kisha niliwaona watu wakikimbia kuelekea

pande zote...

**102/2**

**KISWAHILI**

**KARATASI YA PILI**

**LUGHA**

**KIDATO CHA TATU 2020**

**MUDA: SAA 2½**

# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3**

*Kenya Certificate of Secondary Education (K.C.S.E)*

**Maagizo kwa watahiniwa**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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1. Andika jina lako, nambari, na darasa lako katika nafasi ulizoachiwa hapo juu.
2. Andika tarehe ya mtihani na utie sahihi yako katika nafasi ulizoachiwa hapo juu.
3. Jibu maswali **yote**.
4. Andika majibu yako katika nafasi ulizoachiwa baada ya kila swali katika kijitabu hiki cha maswali.
5. Tumia hati nadhifu.
6. Usitoe ukurasa wowote kutoka kwenye kijitabu hiki.
7. Karatasi hii ina kurasa **10** zilizopigwa chapa.
8. Watahiniwa ni lazima waangalie kama kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

**Kwa matumizi ya mtahini pekee**

| SWALI        | UPEO | ALAMA |
|--------------|------|-------|
| 1            | 15   |       |
| 2            | 15   |       |
| 3            | 40   |       |
| 4            | 10   |       |
| <b>JUMLA</b> | 80   |       |



## 1. UFAHAMU (Alama 15)

*Soma Makala yafuatayo kisha ujibu maswali.*

Yasemekana kuwa Shungwaya ndicho kitovu cha watu waishio Giriama katika janibu za pwani ya Kenya na wanaojulikana kwa jumla kana Wamijikenda.

Yaaminika kuwa bado wakiwa Shugwaya, walimuua Mgalla mmoja mwenyeji wa Shungwaya na kitendo hicho kiliamsha hasira kali za Wagalla, hata ikawawia vigumu Wamijikenda kuishi kwa usalama pamoja na ndugu zao hao.

Hata hivyo, Wamijikenda hawakugura mara moja wala wote kwa pamoja bali walihama katika vipindi tofauti na katika makundi madogomadogo. Kila kundi lililofika Giriama lilijenga 'kaya' au mji wake. Kwa jumla, walihama kwa makundi tisa.

Vile vile, Wamijikenda walihama na fingo yao ambayo ilifukiwa na viongozi wao katikati ya kaya zao, palipokuwa na msitu mdogo. Hakuna ajuaye hasa mahali ilipofukiwa ila wazee hao waliopenda kufanyia baraza mahali hapo.

Mnamo mwaka wa 1870, mzee Menza na mkewe walibarikiwa kufungua kizazi kwa kupata mtoto wa kike waliyemwita Mekatilili. Walimlea vizuri na alipoanza kuzungumza, alionyesha dalili za kuwa na kipawa cha pekee. Kwanza, alipenda kujua kila kitu kilichoihusu jamii yake na pili alichukizwa sana na kiumbe aliyemdhulumu kiumbe mwenzake. Kwa mfano, aliwaonea vipepeo imani walipoliwa na ndege. Tena alizipenda sana mila na desturi za watu wa jamii yake – Wamijikenda.

Siku moja, baada ya Mekatilili kufikia utu uzima, mama yake alimwita chemba akanwambia, “Mwanangu sasa umeshabalehe, nami ningependa kuwaona wajukuu wangu kabla sijawafuata wazee waliotangulia. Waonaje tukikuoza? Mimi na baba yako tumepata mume ambaye ni kufu yako kabisa.”

“Ninaelewa, maana hizi ni desturi zetu, lakini ningefurahi zaidi kama mngeniruhusu nijichagulie mume ninayempenda.” Binti alimjibu mamaye.

“Mnazi na uwe mrefu, huyumba kufuata upepo.” Mama akajibu. Tangu hapo binti akawa hana la kujibu ila kukubali.

Siku ya harusi, watu wengi walihudhuria na wakastarehe kwa tembo la mnazi ambalo lilikuwa limetengenezewa kwa wingi. Jioni hiyo, mekatilili alichukuliwa kwa mumewe Masendeni, karibu na mto Sabaki. Ikawa hangeonana na wazazi wake kila siku kama ingalivyokuwa mapenzi yake. Wakati huu kote nchini Kenya kulikuwa kumejaa wageni, wengi wao wakiwa walowezi na watawala wa

kibeberu. Walikuwa wameanzisha mashamba ya mikonge, kahawa na chai. Walihitaji watu wa kupalilia mashamba yao hayo. Hata hivyo Waafrika hawakuwa na haja ya kulima wala pesa. Hata walipolima, ni kwa minajili ya kubadilishana mazao na kula. Iliwabidi Wazungu kutumia mizungu ili kuwashurutisha Waafrika kuwalimia. Baadhi ya mikakati waliyobuni ni kuwateka nyara watu barobaro na kutoza kodi. Ni katika harakati kama hizo ambapo mumewe Mekatilili alitekwa, asirudi tena kwake. Wakati uo huo, wazazi wa Mekatilili waliaga dunia.

Mambo haya yalimpa mekatilili msukumo. Baada ya muda wa kuomboleza kuisha, alijiunga na wazee wapigania ukombozi, mmoja wao akiwa Wanje, kakaye mumewe. Aliwaunganisha wanawake na kuwahimiza wasiige mila na desturi za kizungu. Aliwahutubia wanaume na kuwakumbusha kuwa ilikuwa lazima wailinde nchi yao. Siku moja alishikwa kwa kuwalisha watu kiapo. Alipelekwa bara, Kisii, mbali kabisa na kwao, Masharibi mwa Kenya na akatiwa kizuizini pamoja na Wanje. Hata hivyo, walifaulu kutoroka na kwa muda wa siku ayami walipitia kwenye mabonde na milima, misitu na nyika hadi wakarudi Giriama.

Mabeberu walikasirika sana. Hata hivyo, walikuwa wamechelewa. Katika safari yao kurudi Giriama, walifaulu kuhubiria wengi dhidi ya mgeni. Vita vya ukombozi vilikuwa vimeshika.

## **Maswali**

1. Ni kwa nini Wagiriama wanajulikana kama Wamijikenda?

(al.1)

.....  
.....

2. Ni maafa gani yaliyompata Mekatilili katika maisha yake?

(al.4)

.....  
.....

.....  
.....

3. Ni hali gani inayotawala katika makala haya.

(al.2)

.....  
.....  
..

4. Taja masuala ya kijinsia yanayojitokeza katika Makala haya.

(al.2)

.....  
.....

5. Wazungu walitumia mbinu gani ili kuwashurutisha watu kuwafanyia kazi mashambani mwao.

(al.2)

.....  
.....

6. Andika maneno mengine yeney maana sawa na;

i) Kugura.....(al.1)

ii) Kubalehe.....(al.1)

7. Eleza maana ya;

i) Mnazi na uwe mrefu huyumba kufuata upepo  
.....(al.1)

ii) Kitovu cha watu waishio Giriama

## **2. UFUPISHO (Alama 15)**

*Soma kifungu kifuatacho kisha ujibu maswali.*

Kiswahili tunasema ni lugha yetu kwa sababu ndiyo lugha ya Kiafrika inayoongewa katika nchi nyingi Barani Afrika. Ni lugha yetu kwa sababu ni lugha asilia mojawapo za Afrika. Siyo lugha iliyoletwa na watu wa nchi za nje kama vile Kiingereza, Kifaransa na Kireno. Uzuri wa Kiswahili sasa ni kuwa kimeenea kote Afrika Mashariki na Kati.

Wenyeji asilia waliokuwa wakiongea lugha hii tangu awali ni Waswahili. Waswahili hawa hata leo wako na wanaendelea kuitumia lugha hii kama lugha yao ya mama, kama vile Wakikuyu watumiavyo Kikikuyu, Wakamba, Kikamba na Wadigo lugha ya Kidigo. Makao yao Waswahili tangu jadi yanapatikana kaunti ya Pwani. Makao yao yameanzia upande wa Kaskazini Mashariki ya Kenya, na wanapakana na nchi ya Somalia huko. Wameenea katika upwa huo wa Pwani, ikiwamo Lamu, Malindi, Mombasa, Pemba, Unguja, Visiwa vya Ngazija na kuendelea.

Lugha ya Kiswahili ina lahaja nyingi kulingana na sehemu wanamoishi. Kwa mfano, Waswahili wa Lamu huongea lahaja ya Kiswahili inayoitwa Kiamu. Waswahili wa Mombasa huongea lahaja ya Kimvita. Pemba wanaongea Kipemba, Ngazija lahaja ya Kingazija, Unguja lahaja ya Kiunguja na kadhalika. Kutokana na lahaja hizi na nyinginezo za Kiswahili ambazo hazikutajwa hapo, wataalamu wa lugha walitokea na Kiswahili sanifu. Hiki Kiswahili sanifu ndicho kitumiwacho katika mafunzo ya shule, uandishi wa vitabu na mawasiliano ya kiserikali na kibiashara.

Nchini Kenya, kwa muda mrefu Kiswahili hakikuthaminiwa kama Lugha ya Kiingereza. Sababu mojawapo ni kuwa Kiswahili hakikufanywa somo la lazima katika rasimu za shule, wala kutahiniwa katika shule za msingi. Hata katika shule za upili, katika kufunzwa na kutahiniwa hakikupewa umuhimu wowote. Kwa ajili hii wanafunzi wengi waliacha kujifunza Kiswahili kama somo. Hali hiyo ilifanya Kiswahili kuonekana kama lugha inayoongewa na wale watu wasio na kisomo ama elimu nyingi. Kwa ajili ya fikira hizi, watu wengi wamekuwa wakikichukia, kukidunisha na kujaribu kuongea Kiingereza kila nafasi inapojitokeza.

Miaka michache iliyopita, Kiswahili kilianza kutiliwa mkazo katika shughuli zote nchini Kenya. Kwa upande wa msimamo wa nchi lugha hii ilionekana yenye manufaa katika kuleta umoja na kuwaunganisha wananchi wote. Jambo hili ni muhimu kwa maendeleo ya nchi iwayo yote. Umoja huleta maelewano na undugu. Hali hizi mbili zinapokuwapo, amani husambaa nchini mote.

Tukitazama mfumo wa elimu wa 8-4-4, Kiswahili kimepewa nafasi sawa katika ratiba za shule kama lugha ya Kiingereza. Kiswahili kinatahiniwa kama somo muhimu kuanzia shule ya msingi hadi shule ya upili. Kinyume na enzi za zamani, siku hizi mwanafunzi anayesoma Kiswahili, hata asipofaulu vizuri katika lugha ya Kingereza ana nafasi sawa ya kupata kazi kama wengine.

Maswali

- a) Fupisha aya tatu za mwanzo kwa maneno 80. (alama 7)

Matayarisho

.....  
.....

..... Jibu

.....  
.....

..... Eleza vile Kiswahili hakikuthaminiwa na namna hali hii inavyobadilika. (alama 8)

Matayarisho

.....  
.....

..... Jibu

.....  
.....

.....

### **MATUMIZI YA LUGHA (Alama 40)**

- (a) Toa **maelezo** ya jinsi ambavyo hewa huzuiliwa wakati wa kutamka sauti hizi. (alama 2)

- i) /p/.....  
.....  
.....
- ii) /ch/.....  
.....  
.....
- iii) /m/.....  
.....
- iv) /r/.....  
.....

(b) Tenga silabi katika neno: Alimhukumu. **(alama 1)**

.....  
.....

(c) Tunga sentensi moja yenye kitenzi shirikishi kikamilifu na vitenzi sambamba. **(alama 3)**

.....  
.....

(d) Tumia neno mji kama **kielezi cha mfanano**.  
**(alama 1)**

.....  
.....

(e) Onyesha **namna tatu** za kutumia kiambishi “ji” katika **sentensi moja**, kisha ueleze **matumizi** husika.

**(alama 3)**

.....  
.....  
.....  
(f) Ziweke nomino hizi katika **ngeli** zake.

**(alama**

**2)**

i) waya

.....

.....

ii) Kilembwe

.....

.....

(g) Tambua virai vilivyopigiwa mistari ni vya **aina** gani kisha uonyeshe **miundo** yake. **(alama 4)**

(i) Kikapu kilichofumwa juzi kitauzwa marikiti.

.....

.....

.....

.....

(ii) Wenzetu walikuwa wakijinaki kabla ya dimba.

.....

.....

.....

(h) Eleza **maana mbili** za sentensi: Zainabu alisema atakusaidia.

**(alama 2)**

.....  
.....  
.....  
(i) Onyesha **majuku** ya mofimu katika neno: awaliaye  
**(alama 3)**

.....  
.....  
.....  
(j) **Andika kinyume:** Aliiangika picha ukutani baada ya sherehe. **(alama 2)**

.....  
.....  
.....  
(k) Unda nomino kutokana na vitenzi vifuatavyo bila kutumia kiambishi ku.  
**(alama 2)**

i) Tuma

.....  
.....

ii) Pinda

.....  
.....

(l) Eleza tofauti iliyopo kati ya ukanushaji na kinyume. **(alama 2)**

.....  
.....  
.....



(m) Andika kwa usemi wa taarifa: “Viungo hivi havitatosha kuunga mchuzi wenu”, mpishi alalamika. **(alama 2)**

.....  
.....  
.....

(n) Tumia **visanduku** kuchanganua sentensi ifuatayo: Alipotuona alitupuuza, lakini sisi tulimsalimia. **(alama 4)**

.....  
.....  
.....

..... (o) Tumia vitate vya jua , toa na baka katika sentensi **tatu tofauti**. **(alama 3)**

.....  
.....  
.....  
.....

(p) Kamilisha kwa viigizi mwafaka.  
**(alama 2)**

(i) Ameanguka ..... matopeni.

(ii) Mlango ulibishwa .....

(q) Tofautisha sentensi.  
**(alama 2)**

(i) Ungalisoma kwa bidii, ungalipita mtihani.

.....  
.....

(ii) Ungelisoma kwa bidii, ungelipita mtihani.

.....  
.....

**3. ISIMU JAMII (Alama 10)**

**Maswali**

a) “..... unaweza kukata rufaa iwapo unaonelea kuwa umehiniwa .....”

i) Bainisha sajili ya mazungumzo haya.

(al.1)

.....

ii) Fafanua sifa za matumizi ya lugha katika muktadha huu.

(al.4)

.....

.....

.....

b) Jadili changamoto zinazokumba kuimarika kwa Kiswahili katika jamii ya sasa.(al.5)

.....

.....

.....

**KISWAHILI**  
**FASIHI YA KISWAHILI**  
**CHAMPIONS APRILI 2020 MUHULA WA KWANZA**

**MUDA: SAA 2<sup>1/2</sup>**

**F3 SET 3 CHAMPIONS HOLIDAY EXAMS**  
**2020**  
**FORM 3**

*Kenya Certificate of Secondary Education (K.C.S.E)*

**MAAGIZO:**

- 1. Jibu maswali MANNE Pekee.**
- 2. Swali la kwanza ni la lazima.**
- 3. Maswali mengine yachaguliwe kutoka sehemu zilizobaki.**
- 4. Usijibu maswali mawili kutoka sehemu moja.**
- 5. Kila swali lina alama ishirini**

**1. SEHEMU A: USHAIRI (LAZIMA)**

Eti

Mimi niondoke hapa

Niondoke hapa kwangu

Nimesaki, licha ya risasi

Vitisho na mauaji, siondoki

Mimi

Siondoki

Siondoki siondoki

Niondoke hapa kwangu!

Kwa mateke hata na mikuki

Marungu na bunduki, siondoki

Hapa

Siondoki

Mimi ni Pahame!

Niondoke hapa kwangu!

Fujo na ghasia zikizuka

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

Na kani ya waporaji, siondoki

Haki  
Siondoki  
Kwangu siondoki  
Niondoke hapa kwangu!  
Nawaje; waje wanaokuja  
Mabepari wadhalimu, siondoki

Kamwe  
Siondoki  
Ng'oo hapa kwangu!  
Katizame chini mti ule!  
Walizikwa babu zangu, siondoki

Sendi  
Nende wapi?  
Si hapa kitovu changu  
Niondoke hapa kwangu  
Wangawa na vijikaratasi  
Si kwamba hapa si kwangu, siondoki

Katu  
Siondoki  
Sihitaji karatasi  
Niondoke hapa kwangu  
Yangu mimi ni ardhi hii  
Wala si makaratasi, siondoki

### **Maswali**

- a) Shairi hili ni la aina gani? Kwa nini (alama 2)
- b) Taja masaibu anayopitia mzungumzaji (alama 4)
- c) Eleza toni ya shairi hili (alama 2)
- d) Eleza muundo wa shairi hili (alama 3)
- e) Tambua matumizi ya mbinu ya usambamba (alama 2)
- f) Andika ubeti wa tano kwa lugha nathari (alama 4)
- g) Tambua idhini moja ya mtunzi (alama 1)
- h) Eleza maana ya maneno yafuatayo kama yalivyotumika katika shairi (alama 3)
  - (i) Karatasi
  - (ii) Nimesaki

(iii)kitovu

**2SEHEMU B TAMTHILIA YA KIGOGO**

- 2.Uliona nini kwa huyo zebe wako ? Eti mapenzi!
- a. Eleza muktadha wa dondoo. (al. 4)
  - b. Andika mbinu za lugha zinazojitokeza kwenye dondoo hili (al. 4)
  - c. Taja hulka za mnenaji unajitokeza katika dondoo. (al. 2)
  - d. Mwanamke ni kiumbe wa kukandamizwa. Thibitisha kauli hii ukirekjelea tamthilia. (al. 10)
- 3.wa kurejelea tamthilia ya 'Kigogo ya Pauline Kea, onyesha jinsi ambavyo viongozi wengi katika nchi za kiafrika wamejawa na tamaa.  
(alama 20)

**SEHEMUC.RIWAYA YA CHOZI LA HERI(ASSUMPTA MATEI)**

4. “ Kwa kweli ni hali ngumu hii”  
Weka dondoo katika muktadha wake. (alama4)  
Ni hali gani yamsemewa inayorejelewa kwenye dondoo. (alama16)
- 5) Ukabila ni tatizo sugu katika nchi nyingi za Kiafrika. Tetea kauli hii ukilejelea Chozi la Heri ( al. 20)

**Alifa Chokocho na Dumu Kayanda: Tumbo Lisiloshiha na Hadithi nyingine jibu swali la 6 au la 7**

- 6.Ukirejelea hadithi zifuatazo, eleza jinsi maudhui ya mapenzi na asasi ya ndoa yanavyojitokeza. (alama20)
- a) Mapenzi ya kifaurongo
  - b) Masharti ya kisasa
  - c) Ndoto ya Mashaka
  - d) Mtihani wa maisha
- Au

**Shibe inatumaliza : Salma Omar Hamad**

- 7.“Hiyo ni dharau ndugu yangu. Kwa nini kila siku tunakula sisi kwa niaba ya wengine ?”
- a) Eleza muktadha wa dondoo hili.  
(alama 4)
  - b)Eleza sifa za msemaji.  
(alama 6)
  - c) Eleza jinsi viongozi wanavyokuwa wabadhirifu.  
(alama 10)

**SEHEMU YA E: FASIHI SIMULIZI**

8a) Fafanua mchakato/fomula ya uwasilishaji wa vitendawili.  
(alama4)

b) Linganisha naulinganue vitendawili na methali.

(alama10)

c) Toa sababu sita za kudidimia kwa fasihi simulizi.

(alama6)

**231/1**

**BIOLOGY**

**Paper 1**

**Time: 2 Hours**

**F3 SET 3 CHAMPIONS HOLIDAY EXAMS**

**2020**

**FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES:**

- *This paper consist of twenty six(26) questions.*

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

**Page 70 of 293**

- Answer **all** the questions
- All answers **must** be written in the spaces provided in this booklet.
- Write your name and Admission number in the spaces provided.
- Additional pages **must not** be inserted

**EXAMINER’S USE ONLY**

| Question | Maximum score | Candidates Score |
|----------|---------------|------------------|
| 1 - 26   | 80            |                  |

*This paper consists of 7 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing.*

1. (a) Explain how the following adaptations minimize the rate of transpiration.

(i) Sunken stomata  
(1mrk)

.....  
 .....

(ii) Leaf drooping  
(1mrk)

.....  
 .....

2. An animal was found to have a large glomeruli and a short loop of henle. Account for the presence

of ;

(i) Large glomeruli (1mrk)

.....  
.....

(ii) Short loop of henle

(1mrk)

.....  
.....

(iii) State the possible habitat for the organism.

(1mrk)

.....  
.....

3. State **two** features of a petal that enhances insect pollination.

(2mrks)

.....  
.....  
.....

4. Give **two** adaptations of halophytes to survival in their habitats.

(2mrks)

.....  
.....  
.....

5. Name the hormone involved in

(i) Conversion of glycogen to glucose

(1mrk)

.....



.....  
(ii) Regulation of the amount of water in blood.

(1mrk)

.....  
.....

6. A person was found to pass out large volumes of dilute urine frequently.

(a) Name the disease the person was suffering from.

(1mrk)

.....

(b) Which hormone was likely to be deficient in the body?

(1mrk)

.....

(c) Name the gland that releases the hormone normal in **(b)** above.

(1mrk)

.....

7. State the function of the following cell organelles.

(3mrks)

(i) Mitochondrion

.....

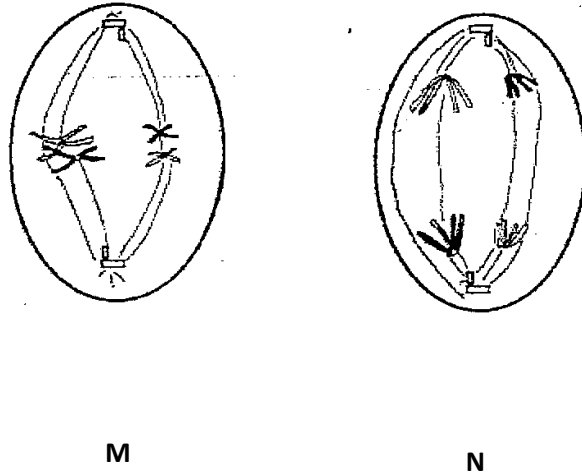
(ii) Ribosomes

.....

(iii) Lysosomes

.....

8. The figure below represents **two** phases during cell division.



(a) Identify the phase in

(2mrks)

(i) **M** .....

(ii) **N** .....

(b) At what stage of cell division do crossing over take place?

(1mrk)

.....

(c) Explain the importance of the process in **(b)** above / crossing over.

(2mrks)

.....

.....

.....

9. (i) State **two** ways in which aerenchyma tissues in aquatic plants are adapted to their function.

(2mrks)

.....

.....

(ii) Name the structure used by plants growing in waterlogged soils for gaseous exchange.  
(1mrk)

.....

10. (i) Distinguish between nitrification and denitrification. (2mrks)

.....

.....

.....

(ii) Name **two** micro organisms involved in nitrogen fixation.

(2mrks)

.....

.....

.....

11. State the role of each of the following components of the skin. (3mrks)

(i) Melanin

.....

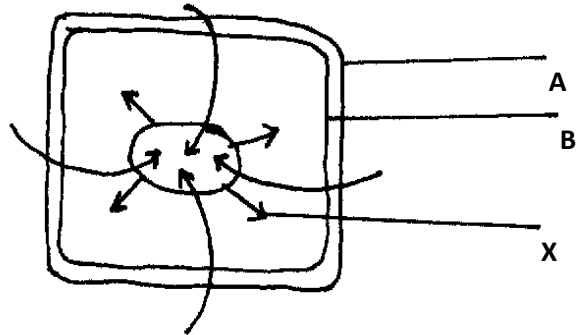
(ii) Adipose fat deposit

.....  
(iii) Sebum  
.....

12. In a blood test, a drop of Anti-A serum were added to two samples of blood. No agglutination occurred. What were the blood groups of the two samples?  
(2mrks)

.....  
.....  
.....

13. Below is a diagram showing results of what happens when a plant cell is placed in a certain solution.



(a) (i) Name the force represented by the arrows labeled X.  
(1mrk)

.....  
(ii) Name the cell structure labeled A and B.

(2mrks)

A .....

B .....

(ii) In one word, name the nature of the solution in which the cell was placed.

(1mrk)

.....

(b) Name the chemical compound that prevents the cell from osmotic bursting. (1mrk)

.....

14. Outline **three** physiological changes that occur in human skin that reduces heat loss. (3mrks)

.....

.....

.....

15. (a) Name a fat soluble vitamin that is manufactured by the human body. (1mrk)

.....

(b) (i) What is the function of the vitamin name in (a) above?

(1mrk)

.....

(ii) Name the deficiency disease that results from insufficiency of the vitamin named in (a) above.

(1mrk)

.....

16. (a) State **two** roles of sodium hydrogen carbonate as a constituent of pancreatic juice.(2mrks)

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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.....  
.....  
.....

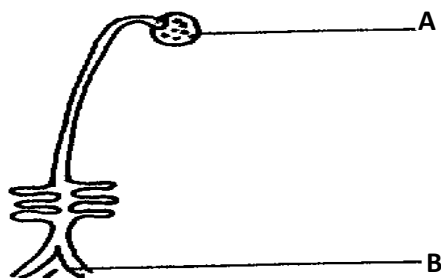
(b) What is the role of lacteal in nutrition? (1mrk)

.....

17. Name **two** protozoan diseases in man and give the causative agent of each  
(4mrks)

| <u>Diseases</u> | <u>Causative agent</u> |
|-----------------|------------------------|
| (i)             |                        |
| (ii)            |                        |

18. The figure below represents a plant.



(a) State the division the plant belongs to (1mrk)

.....

(b) Name the parts labeled **A** and **B**.  
(2mrks)

**A** .....

**B** .....

19. Give an economic importance of;  
(2mrks)

(i) Tannin

.....

(ii) Colchicine

.....

20. (a) Why is seed dormancy important?  
(2mrks)

.....

.....

.....

(b) State **two** roles of water during seed germination.  
(2mrks)

.....

.....

.....

21. Joseph mounted a specimen on a slide onto the stage of a microscope but failed to see anything through the eye piece, suggest two possible reasons for this.

(2mrks)

.....

.....

.....

22. Name **three** effects of dumping untreated sewage into a river. (3mrks)

.....

.....

.....

.....

23. State **three** ways by which human body naturally prevent entry of pathogens into it. (3mrks)

.....

.....

.....

24. The scientific name for a domestic cat is felis catus. Outline the rule that were never followed in writing the name.

(3mrks)

.....

.....

.....

.....



25. State the use of the following apparatus used during collection of specimen for laboratory study.

(i) Pooter  
(1mrk)

.....

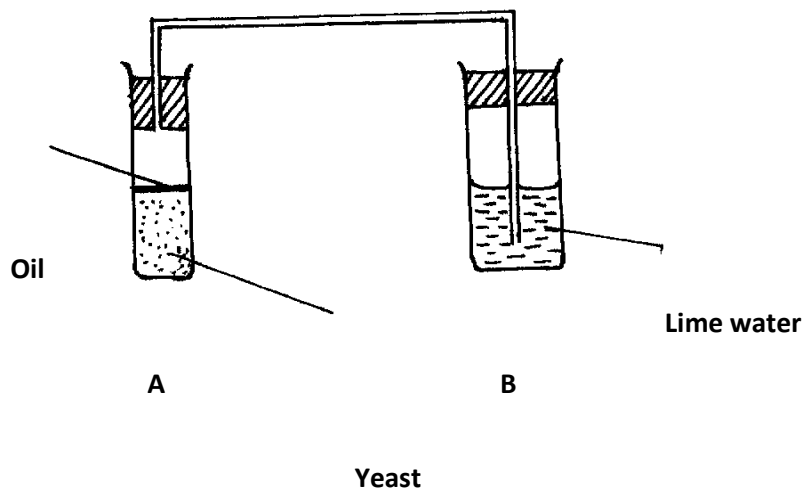
(ii) Pit fall trap  
(1mrk)

.....

(iii) Sweep net  
(1mrk)

.....

26. Study the set up below and answer the question that follow.



(a) (i) What process was being investigated?

(1mrk)

.....

(ii) Why was glucose included in the experiment ?

(1mrk)

.....

(iii) What was the role of oil in the set-up?

(1mrk)

.....

(b) Explain briefly the expected observation in test tubes **B** after a few hours.

(2mrks)

.....

..

.....

..

.....

..

# BIOLOGY

## Paper 2 (THEORY)

Time: 2 Hours

# F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3

*Kenya Certificate of Secondary Education (K.C.S.E)*

### INSTRUCTIONS TO CANDIDATES:

- Write **your name** , **School** and **admission** in the spaces provided above.
- This paper consists of **TWO** sections **A** and **B**
- Answer **ALL** the questions in section **A** in the spaces provided
- In section **B**, answer Question 6 (Compulsory) and either Question 7 or 8 in the spaces provided.

### EXAMINER'S USE ONLY

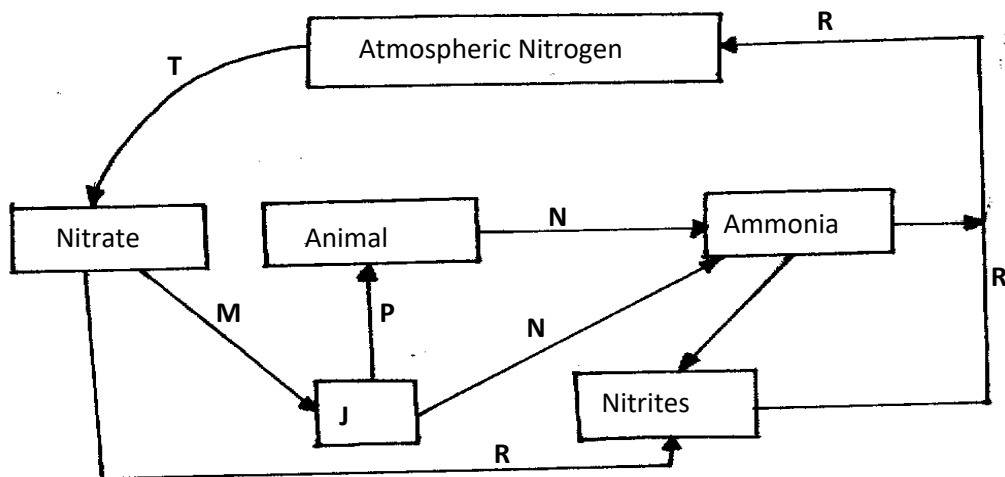
| SECTION | QUESTION | MAXIMUM SCORE | CANDIDATES SCORE |
|---------|----------|---------------|------------------|
|         | 1        | 8             |                  |
|         | 2        | 8             |                  |
|         | 3        | 8             |                  |
|         | 4        | 8             |                  |
|         | 5        | 8             |                  |
|         | 6        | 20            |                  |
|         | 7        | 20            |                  |

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

|                    |   |           |  |
|--------------------|---|-----------|--|
|                    | 8 | 20        |  |
| <b>TOTAL SCORE</b> |   | <b>80</b> |  |

*This paper consists of 8 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing*

1. The diagram below represents a nitrogen cycle.



(a) Name the groups of organism represented by **J**.  
(1mrk)

.....

(b) Name the process represented by **R,P,M** and **N**.  
(4mrks)

**R:** .....

**P:** .....

**M:** .....

**N:** .....

(c) Name **one** process represented by **T**.  
(1mrk)

.....

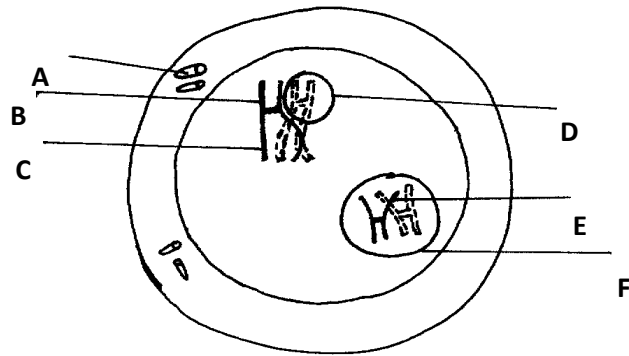
(d) (i) Name a structure in roots involved in process **M**.  
(1mrk)

.....

(ii) State **one** adaptation of the structure named in d(i) above to its function.  
(1mrk)

.....

2. The following diagram shows a cell at a certain stage of cell division.



a) Name the type and stage of cell division.  
(1mrk)

Type.....

Stage.....

(b) (i) Give **one** reason for your answer in (a) above.  
(1mrk)

.....

(ii) What is the significance of the process shown in the diagram above in relation to the behavior of chromosomes?

(1mrk)

.....

.....

(c) What is the general name of organs where the above process occurs? (1mk)

.....  
.....

(d) Name the part labelled;  
(2mrks)

C .....

F .....

(e) State the significance of part labelled A in relation to the process shown above ?  
(1mrk)

.....

(f) Name **one** cell in plants which is haploid  
(1mrk)

.....

3. A  $200\text{cm}^3$  sample of air was treated with pyrogallic acid. This reduced its volume to  $168\text{cm}^3$ .

Potassium hydroxide was then added and the volume of gas reduced further to  $160\text{cm}^3$

(a) What was the role of pyrogallic acid?  
(1mrk)

.....  
.....

(b) What was the role of potassium hydroxide?  
(1mrk)

.....

(c) Calculate the percentage of oxygen and percentage of carbon (iv) oxide in the sample.(2mrks)

(d) Suggest the likely biological source of carbon (iv)oxide gas.  
(1mrk)

.....

(e) State the behaviour of external intercostal muscles during exhalation.  
(1mk)

.....

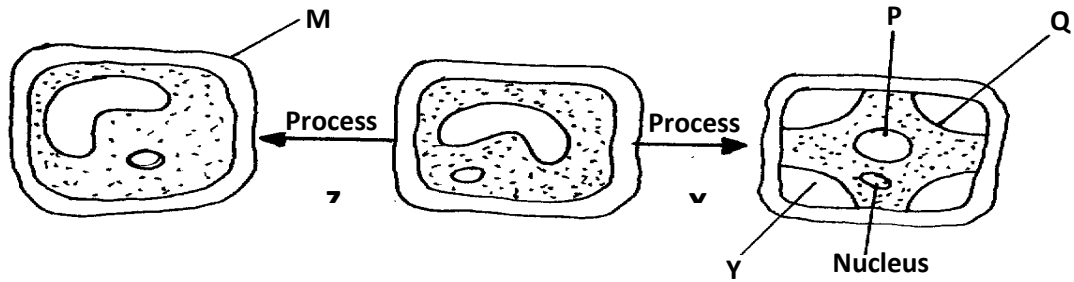
(f) Explain why smokers are more prone to respiratory tract infections than the non- smokers

(  
2  
m  
k  
s  
)

.....  
.....  
.....  
.....



4. The diagram below represents **two** process underwent by a plant cell.



(a) Identify process **X**. .....  
(1mrk)

(b) Name the state of the cell after undergoing process;  
(2mrks)

(i) **X** .....

(ii) **Z** .....

(c) Name the substance which is found in parts labelled;  
(2mrks)

(i) **P** .....

(ii) **Y** .....

(d) Name parts labelled **M** and **Q**.  
(2mrks) **M**..... **Q**.....

(e) Name the cell organelle which is usually referred to as "cell's kitchen".  
(1mrk)

.....  
5. (a) Name **two** substances transported in blood plasma.

(2mrks)

(i)

.....

(ii)

.....

(b) Wanjiru is blood group **A**.

(i) Name an antibody found in her blood plasma.

(1mrk)

.....

(ii) Name an antigen found in her redblood cell.

(1mrk)

.....

(iii) Name the blood groups she can donate to;

(2mrks)

Blood groups-

(i)

.....

(ii)

.....

(c) What is meant by the term allergy?  
(1mrk)

.....  
.....  
.....  
.....

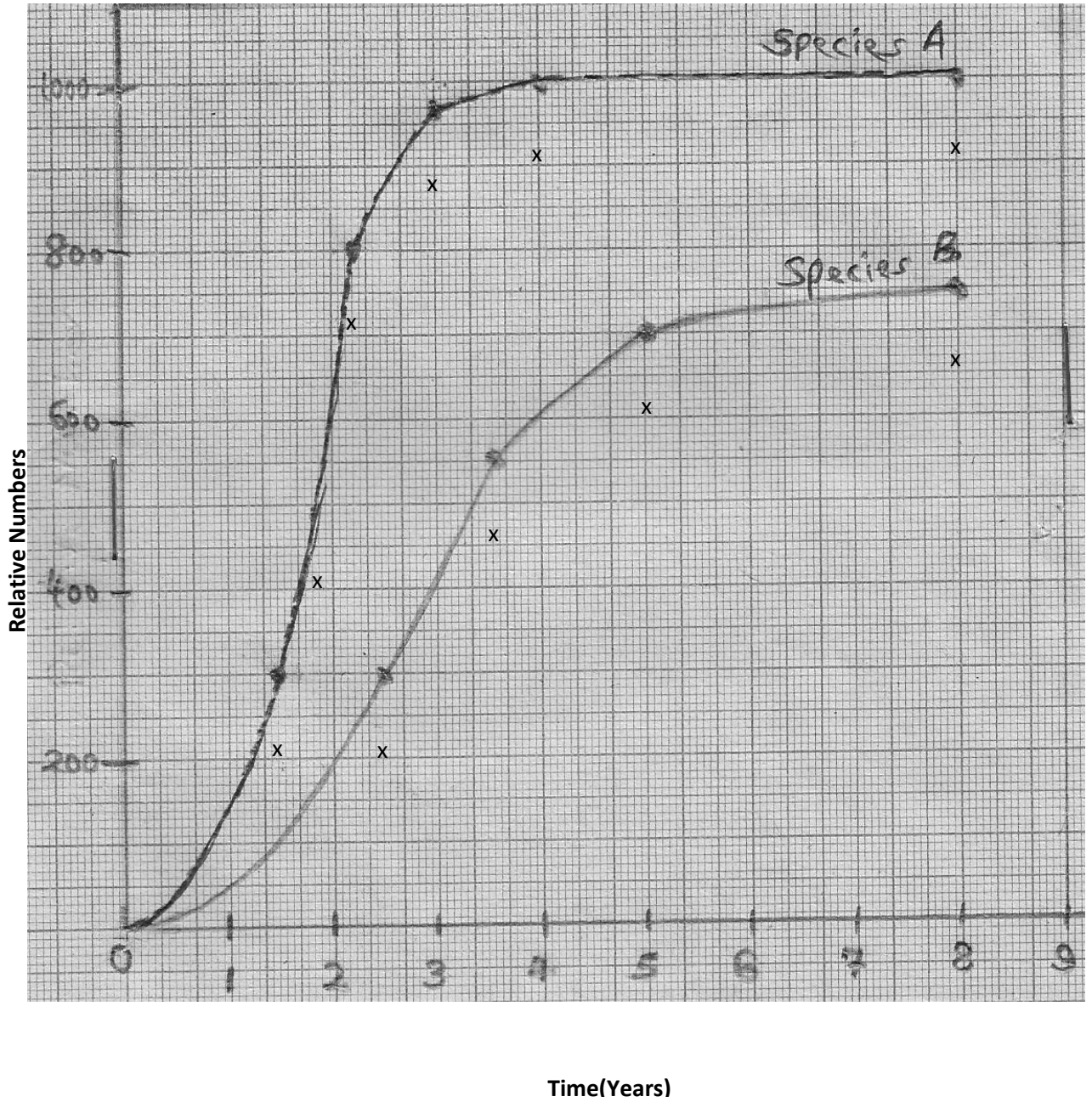
(d) Name **one** substance that can cause allergy.  
(1mrk)

.....

**SECTION B(40MARKS)**

***Answer questions 6 (Compulsory) and either question 7 or 8 in the spaces provided.***

6. Two herbivorous mammal species were introduced into an ecosystem at the same time and in equal numbers. The graph below represents their populations during the first seven years. Study the graph and answer the questions that follow.



(a) (i) Which species has a better competitive ability?

(1mrk)

.....  
.....

(ii) Give a reason for your answer.

(1mrk)

.....  
.....  
.....  
.....  
.....

(b) Account for the shape of the curve for species **A** between;

(i) One year and three years.

(3mrks)

.....

.....  
.....

(ii) 4 years and eight years.  
(3mrks)

.....  
.....  
.....

(c) A natural predator of species **A** was introduced into the ecosystem. With a reason, state how the population of each species would be affected?  
(4mrks)

.....  
.....

.....

(d) State **four** other biotic factors of the ecosystem which affects organisms distribution in their habitat other than the one illustrated in the above graph.  
(4mrks)

.....  
.....  
.....  
.....  
.....

(e) Name the instruments used to measure the following;

(i) Light intensity .....

(1mrk)

(ii) Light penetration in water .....

(1mrk)

(iii) Speed of wind .....

(1mrk)

(iv) Atmospheric pressure .....

(1mrk)

7. Describe the process of fertilization in flowering plants.

(20mrks)

8. (a) How would a leaf be tested for starch?

(10mrks)

(b) Describe adaptation of the Ileum to its function.

(10mrks)

.....  
.....

.....  
.....  
.....  
.....

**231/3**

**BIOLOGY**

**Paper 3**

**Time: 2 Hours**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020**



# FORM 3

## *Kenya Certificate of Secondary Education (K.C.S.E)*

### INSTRUCTIONS TO CANDIDATES:

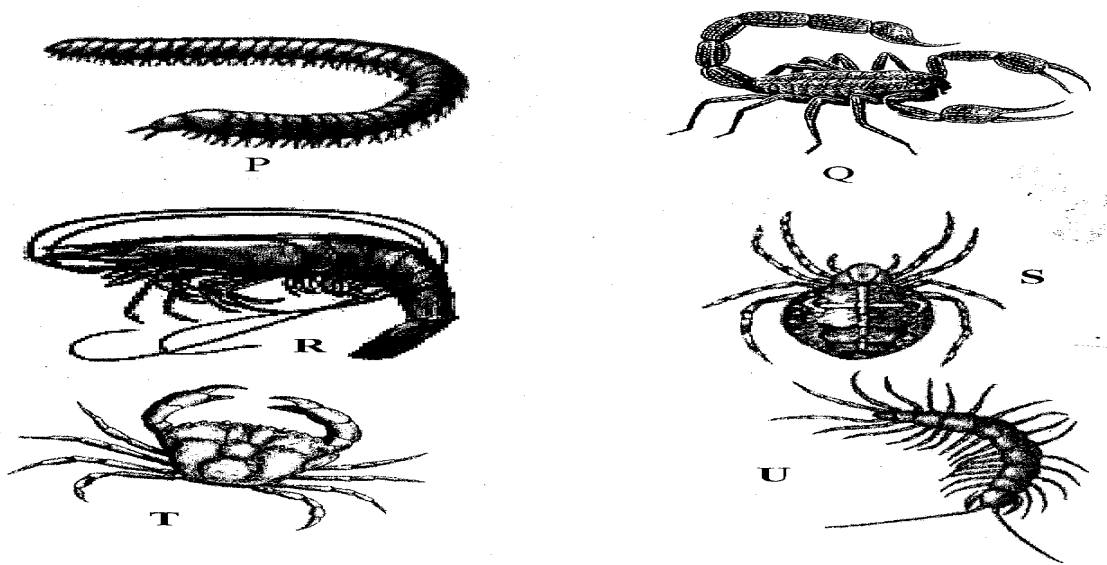
- Write **your name** and **Index Number** in the spaces provided at the top of this page.
- **Sign** and **write** the **date** of examination.
- Answer **all** the questions
- You are required to spend the first 15 minutes of 1½ hrs allowed for this paper reading the whole paper carefully before commencing your work.
- All answers **must** be written in the spaces provided in this question paper.
- Additional pages **must not** be inserted

### EXAMINER'S USE ONLY

| Question     | Maximum score | Candidate's Score |
|--------------|---------------|-------------------|
| 1            | 13            |                   |
| 2            | 15            |                   |
| 3            | 12            |                   |
| <b>TOTAL</b> | <b>40</b>     |                   |

*This paper consists of 4 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing.*

1. Below are photographs of organisms belonging to a certain phylum. Examine them and answer the questions that follow.



(a) By stating **two** observable features from the photographs, identify the phylum of the above animals.  
(3mrks)

Phylum:

.....

Features:

.....

(i)

.....

(ii)

.....

(b) Below is a dichotomous key which can be used to identify the organisms whose photographs are provided above.

- 1 a Body divided into two segmented body parts ..... go to 2
- b Body divided into more than two segments ..... go to 3
- 2 a Posses eight legs ..... go to 4
- b Posses more than eight legs ..... go to 5
- 3 a Long cylindrical body with two pair of legs per segment ..... *Diplopoda*
- b Long flattened body with one pair of legs per segment ..... *Chilopoda*
- 4 a Posses segmented abdomen ..... *Scorpionidae*
- b Abdomen not segmented ..... *Crustacea*
- 5 a Flat leaf –like feet ..... *Branchiopoda*
- b Feet not flat and leaf-like ..... *Decapoda*

Identify organisms labelled **P,Q.T** and **U** by filling the table provided below:

(8mrks)

| Organism | Steps followed | Identity |
|----------|----------------|----------|
| <b>P</b> |                |          |
| <b>Q</b> |                |          |
| <b>T</b> |                |          |
| <b>U</b> |                |          |

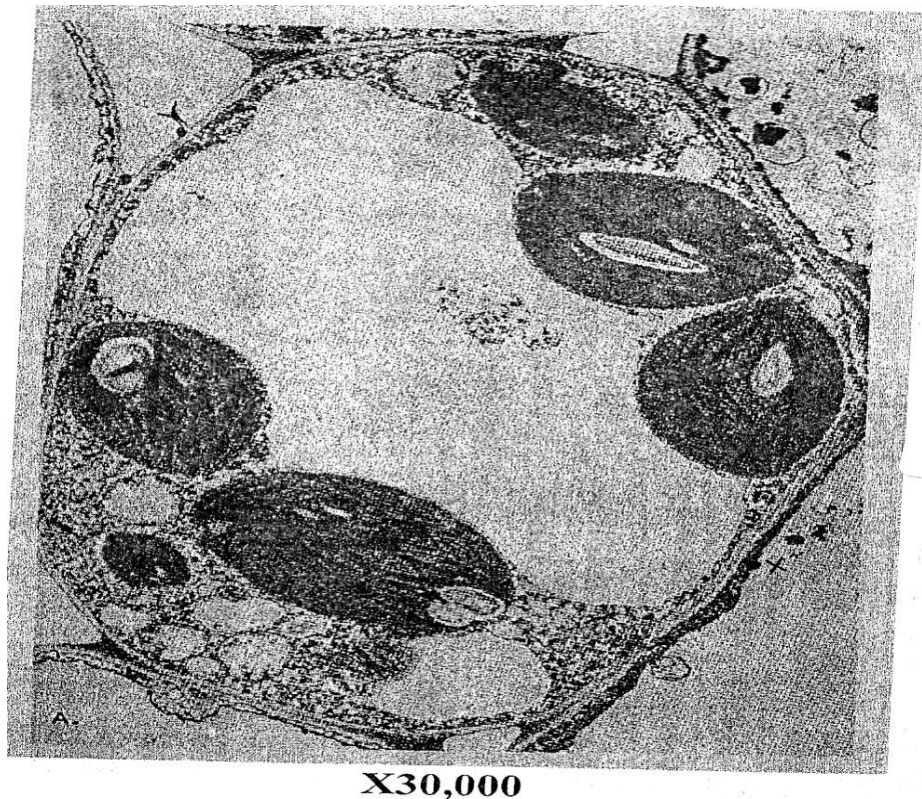
(c) Name a structure found in organism labeled **U** which is missing in organism labeled **P** and state its importance.

(2mrks)

Name of structure.....

Importance.....

2. The photograph below represents a cell.



(a) Identify the Kingdom of the organism from which the cell belongs.  
(1mrk)

.....

.....

(b) Give **three** observable features from the photomicrograph to support your answer in 2 (a) above.

(3mrks)

(i)

.....

...

(ii)

.....

..

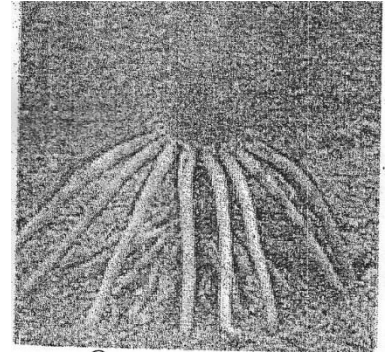
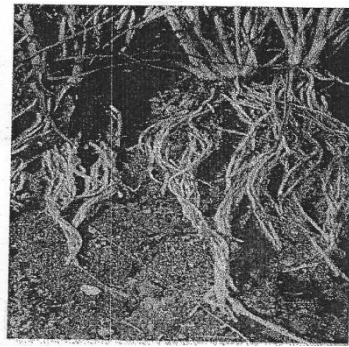
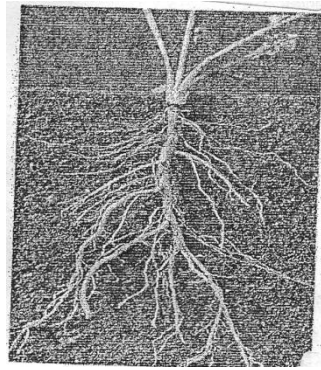
(iii)

.....

,

(c) Work out the length between points **X** and **Y** of the actual cell in micrometres.  
(3mrks)

(d) Below are photographs **A,B** and **C** showing different types of root systems in plants.  
Examine them and answer the questions which follow.



**A**

**B**

**C**

Identify the types of root system labelled **A**, **B**, and **C**.

(3mrks)

**A** .....

**B** .....

**C** .....

(e) Name the class of the plants to which root system labelled **B** belongs.

(1mrk)

.....

.....

(f) Give an example of a common plant with root system labelled **C**.

(1mrk)

.....

(g) State **three** characteristic features of plants with root system labelled **A**.

(3mrks)

(i)

.....

(ii)

.....

(iii)

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.....

3. You are provide with liquid labeled **T** and a range of reagents and materials . Select the appropriate

requirements and carry out iodine, Benedict's, Biuret's and DCPIP test and fill in the table below.

(12mks)

| Test            | Procedure | Observation | Conclusion |
|-----------------|-----------|-------------|------------|
| Iodine test     |           |             |            |
| Benedict's test |           |             |            |
| Biuret's test   |           |             |            |

|            |  |  |  |
|------------|--|--|--|
|            |  |  |  |
| DCPIP test |  |  |  |

**233/1**

**CHEMISTRY PAPER 1**

**(THEORY)**

**TIME: 2 HOURS.**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES.**

- a) Write your **NAME** and **INDEX NUMBER** in the space provided above
- b) Sign and write the date of examination in the spaces provided above

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

**Page 104 of 293**



- c) Answer **ALL** the questions in the spaces provided
- d) **ALL** working must be clearly shown where necessary.
- e) Mathematical tables and silent electronic calculators may be used.
- f) This paper consists of 11 printed pages.  
Candidates should check to ensure that all pages are printed as indicated and no questions are missing

**FOR EXAMINER'S USE ONLY.**

| Question    | Maximum score | Candidate's score |
|-------------|---------------|-------------------|
| 1 – 31      | 80            |                   |
| Total score | 80            |                   |

1. The element, Y has an electronic arrangement 2:8:2

(i) Give the valency of the element.

(1mark)

.....  
 .....  
 .....

(ii) What is the likely nature of its chloride?

(1mark)

.....  
 .....  
 .....

2.

(a) Briefly explain the preparation of flower extract.  
(2marks)

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(b) Give the observation when phenolphthalein indicator is added to a solution of sodium hydroxide.  
(1mark)

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3. Study the information in the table below and answer the questions that follow. ( the letters do not represent the actual symbols of the elements)

| Element | Electrical conductivity | Ductility | Action of water. |
|---------|-------------------------|-----------|------------------|
| A       | Good                    | Good      | No reaction      |
| B       | Good                    | Poor      | No reaction      |
| C       | Good                    | Good      | Reacts           |

Select an element which:-

a) Is likely to be in group (II) of the periodic table  
(1mark)

.....  
.....

b) Could be used to make electric cable  
(1mark)

.....  
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c) Is likely to be graphite.  
(1mark)

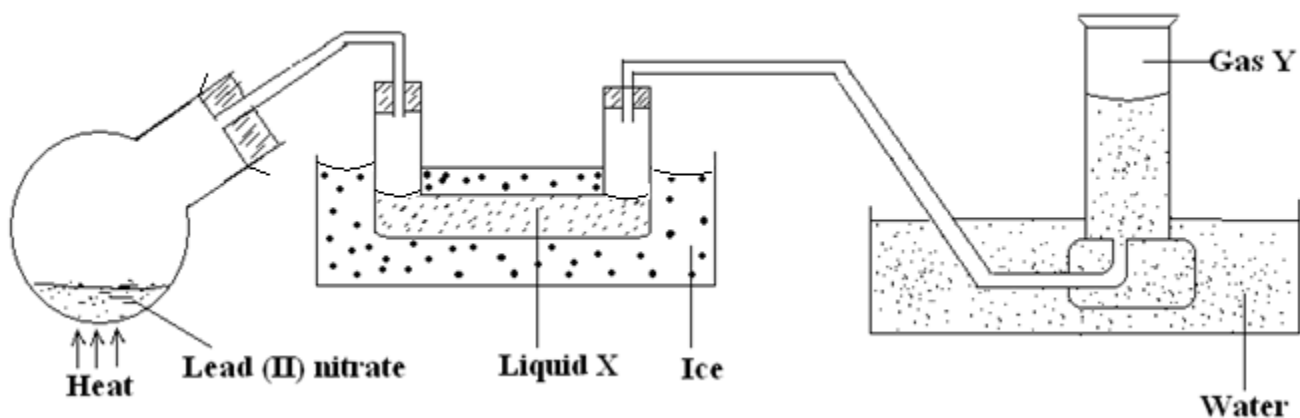
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4. A balloon can hold  $1000\text{cm}^3$  of air before bursting. The balloon contains  $975\text{cm}^3$  of air at  $5^\circ\text{C}$ . Will the balloon burst when it is taken into a house at  $25^\circ\text{C}$ ? Assume that the pressure of the gas in the room remains constant.

(2marks)

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5. A student set up the following experiment to study the effect of heat on lead (II) nitrate.



(i) Identify liquid X

(1mark)

.....

(ii) Describe the chemical test for gas Y.

(1mark)

.....

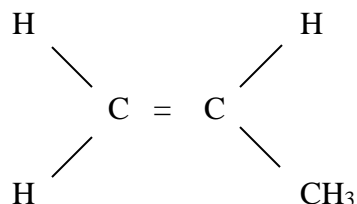
(iii) Write the equation for the reaction

(1mark)

.....

6.

(a) Write an equation to represent the polymerization of propene.

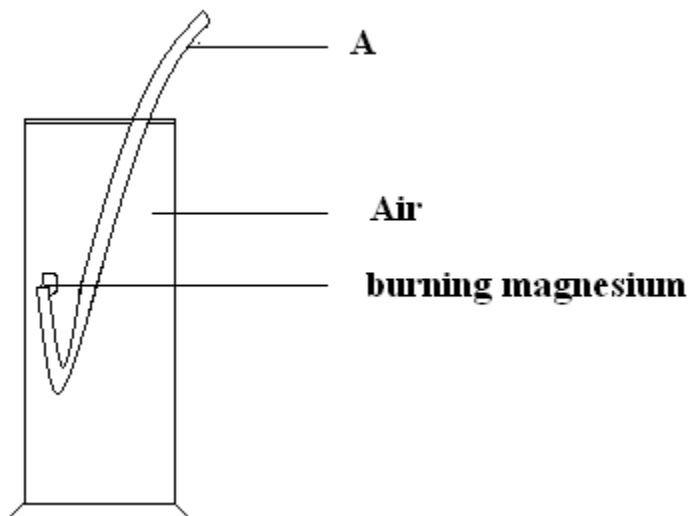


(b) Name the polymer formed from it.

(1mark)

.....

7. A student set up an experiment as shown in the diagram below.



i) Label the apparatus A

(1mark)

.....

ii) Name the two compounds formed from the above experiment.

(1mark)

.....  
.....

iii) Write the two equations showing the formation of the compounds in (ii) above.

(2marks)

.....  
.....

8. Sulphuric (VI) acid,  $H_2SO_4$  forms two salts of potassium which are potassium hydrogen sulphate and potassium sulphate. With reference to the two salts, what is

i) An acid salt

(1mark)

.....

ii) A normal salt

(1mark)

.....

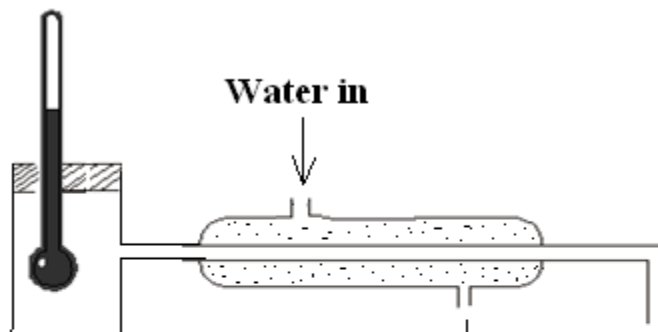
9. A hydrocarbon X has molecular mass of 56. On combustion, 0.28g of the hydrocarbon gave 0.88g of carbon (IV) oxide and 0.36g of water. Determine the molecular formula of the hydrocarbon.

(3marks)

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10. The set up below can be used to separate ethanol from a mixture of ethanol and water.

**FOR MO**



**10**

a) Identify an error in the set up.  
(1mark)

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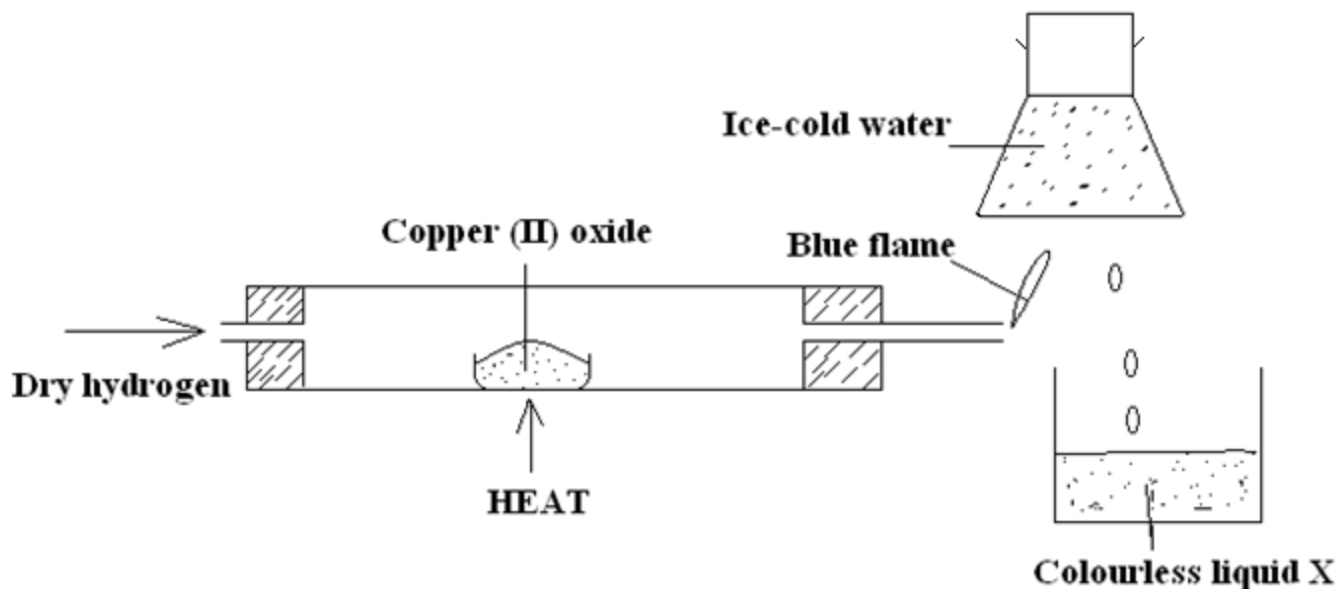
b) Name this method of separation  
(1mark)

.....  
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.....

c) What properties make it possible to separate ethanol from water by this method?  
(1mark)

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.....

11. The diagram below shows dry hydrogen being passed over heated copper (II) oxide. Study it and answer the questions that follow.



(i) State and explain the observation made in the combustion tube in the course of the experiment.

(2marks)

.....  
 .....  
 .....

(ii) Name the colourless liquid X.

(1mark)

.....  
 .....  
 .....

(iii) Write the equation taking place in the combustion tube.

(1mark)

.....  
 .....  
 .....

12. Using dot (.) and cross (x) diagram illustrate the bonding in the following compounds.

a) Carbon (iv) oxide (C = 6 , O = 8)

(1mark)

.....  
.....  
.....

b) Magnesium chloride (Mg = 12, Cl = 17)

(1mark)

.....  
.....  
.....

13. Give two reasons why helium is used in weather balloons.

(2marks)

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14. A compound J reacted with concentrated sulphuric acid to give a colourless gas K. A solution of gas K in water reacts with zinc metal to give a gas L

Name:-

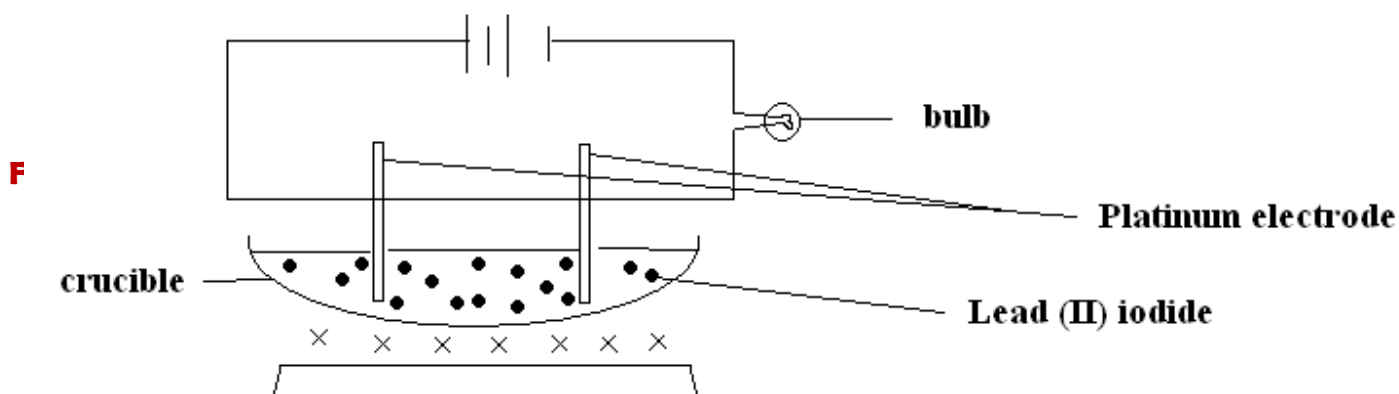
(3mark)

J: .....

K: .....

L: .....

15. A set up to investigate electrical conductivity of substances was assembled as shown below





The bulb did not light.

(a) What was missing in the set up?

(1mark)

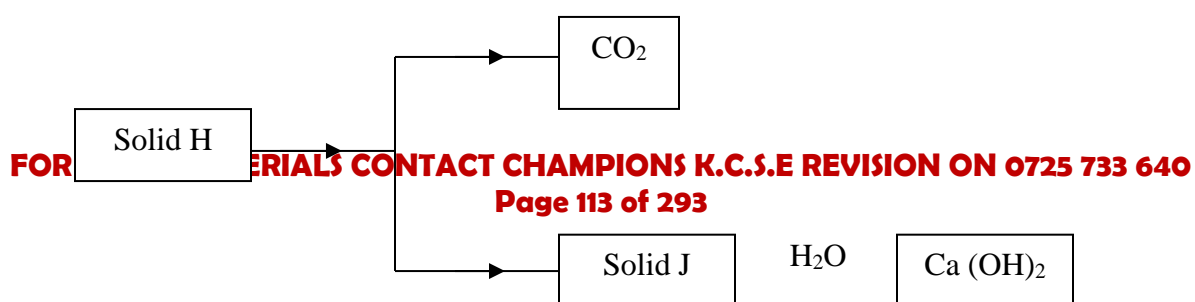
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(b) The bulb lit when the omission was corrected. Explain

(2marks)

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16. Use the scheme below to answer the questions that follow.





(a) Identify the solid

(i) H.....

(1mark)

(ii) J.....

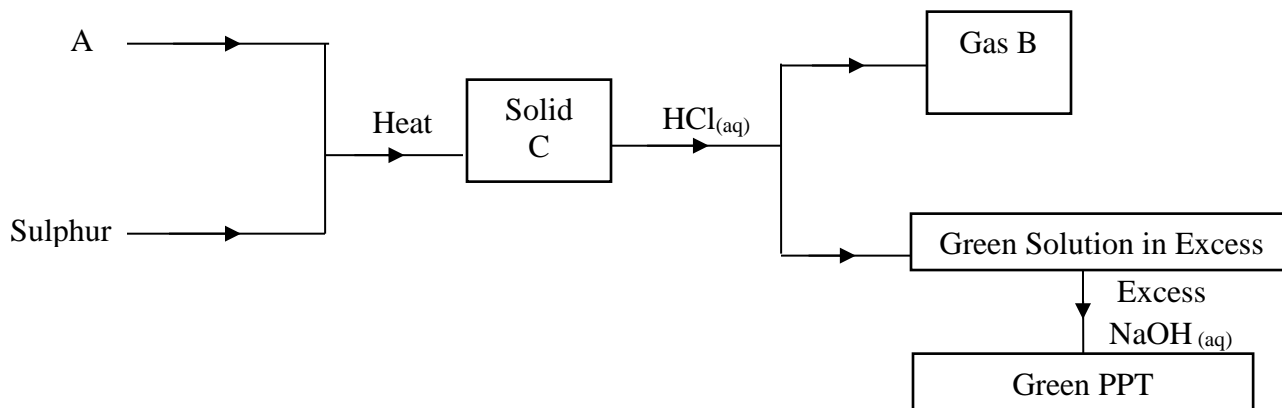
(1mark)

(b) State one laboratory use of  $\text{Ca}(\text{OH})_2$

(1mark)

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17. Study the flow chart below and answer the questions that follow :-



Identify

(3marks)

i.Solid C

.....

ii.Gas B

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

.....  
iii. Substance A  
.....

18. An anhydrous salt Q (relative formula mass=125) combines with water to form hydrated salt Q.  $XH_2O$ . It is found that 50g of Q combine with 36g of water. Find the value of X.

(2marks)

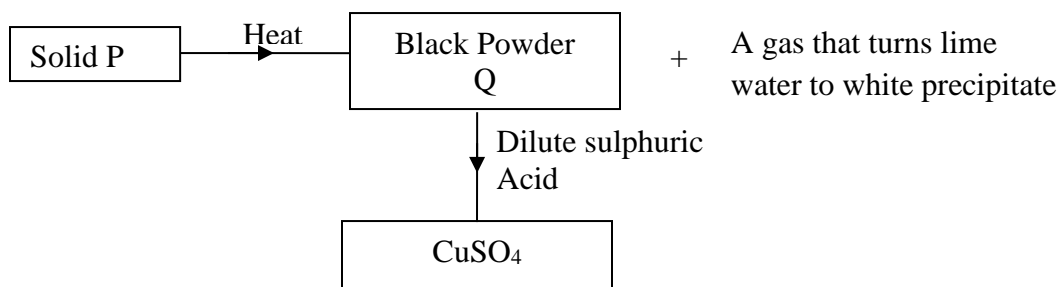
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19. Compound R is a solid with giant ionic structure. In what forms would the compound conduct an electric current?

(1mark)

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20. Study the flow chart below and answer the question that follow:-



Give the chemical formula of:-

i) Solid P .....

(1mark)

ii) Powder Q .....

(1mark)

21.  $30\text{cm}^3$  of 0.5M hydrochloric acid was used to neutralize  $25\text{cm}^3$  of sodium hydroxide solution. Determine the concentration of sodium hydroxide in grams per litre.

(H=1, O = 16, Na = 23)

(2marks)

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22. The metal X, Y and Z forms oxides XO, YO, and ZO. Hot powdered Y will remove oxygen from XO but not from ZO. Arrange the metals in order of reactivity starting with the most reactive. (1mark)

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23. The table below shows atomic numbers of four elements W, X, Y and Z.

|               |    |    |    |   |
|---------------|----|----|----|---|
| Element       | W  | X  | Y  | Z |
| Atomic number | 20 | 17 | 19 | 9 |

i. Write the electron arrangement of the ion of Z.  
(1mark)

.....  
.....  
.....

ii.

a. What is the formula of the compound formed between W and X.  
(1mark)

.....  
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.....

b. Name the bond and structure of the compound in b(i) above.  
(1mark)

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24. Hydrogen sulphide gas is bubbled through bromine water.

(a) Give two observations made.  
(1mark)

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(b) Write the equation for the reaction taking place.  
(1mark)

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(c) State the chemical test for hydrogen sulphide.  
(1mark)

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25. An oxide of copper in a porcelain boat was reduced by a stream of hydrogen. The results obtained were as follows.

|                        |   |       |
|------------------------|---|-------|
| Mass of porcelain boat | = | 4.5g  |
| Mass of boat + oxide   | = | 6.4g  |
| Mass of boat + copper  | = | 6.02g |

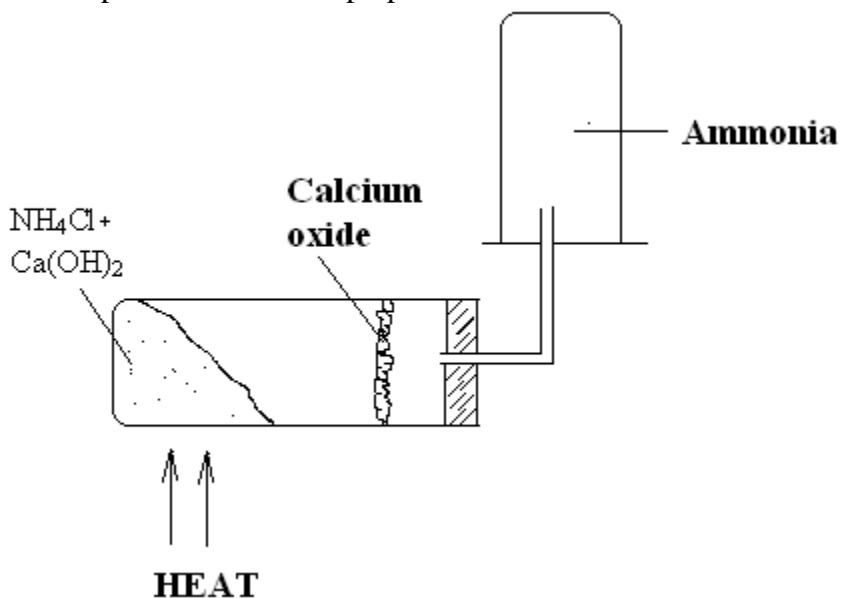
i) Determine the empirical formula of the oxide (Cu = 64, O = 16)  
(2marks)

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ii) If the relative formula mass of the oxide is 80, determine its molecular formula.  
(1mark)

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26. The set up below shows the preparation of ammonia in the laboratory.



(a) Write the equation for the reaction that takes place in the boiling tube.  
(1mark)

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(b) What is the purpose of the calcium oxide?

(1mark)

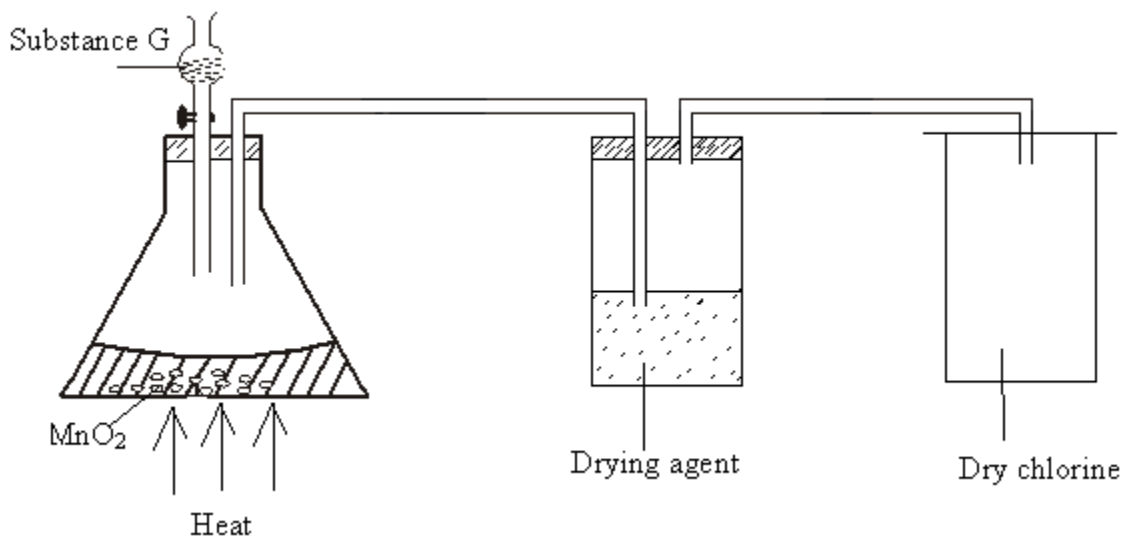
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(c) Explain the method used to collect the gas.

(1mark)

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27. The diagram below shows a set up for the laboratory preparation of dry chlorine.



a) Name

i. Substance G .....

(1mark)

ii. Suitable drying agent.....

(1mark)

b) What property of chlorine makes it be collected as shown in the diagram.

(1mark)

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**TIME: 2 HOURS.**

# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES.**

- Write your name and index number in the spaces provided above.
- Sign and write the date of exam in the spaces provided above.
- Answer **ALL** the questions in the spaces provided.
- Mathematical tables and silent electronic calculators may be used.
- All working **MUST** be clearly shown where necessary.

**FOR EXAMINER'S USE ONLY.**

| <b>Questions</b>   | <b>Maximum score</b> | <b>Candidates score</b> |
|--------------------|----------------------|-------------------------|
| 1                  | 12                   |                         |
| 2                  | 10                   |                         |
| 3                  | 10                   |                         |
| 4                  | 10                   |                         |
| 5                  | 12                   |                         |
| 6                  | 13                   |                         |
| 7                  | 13                   |                         |
| <b>Total score</b> | <b>80</b>            |                         |

*This paper consists of 11 printed pages.*

*Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640  
Page 121 of 293**

1. The table below has information about elements. A,B,C,D,E,F,G,H,I and J. the letters do not represent the actual symbols of the elements. Study the table and answer the questions that follow.

| Element | Ion             | Electron arrangement of ion | Atomic radii | Ionic radii |
|---------|-----------------|-----------------------------|--------------|-------------|
| A       | A <sup>-</sup>  | 2.8.8                       | 0.109        | 0.120       |
| B       | B <sup>2-</sup> | 2.8                         | 0.105        | 0.109       |
| C       | C <sup>2+</sup> | 2.8                         | 0.126        | 0.124       |
| D       | D <sup>3+</sup> | 2.8                         | 0.125        | 0.120       |
| E       | E <sup>+</sup>  | 2.8                         | 0.135        | 0.132       |
| F       | F <sup>+</sup>  | 2                           | 0.108        | 0.100       |
| G       | G <sup>3+</sup> | 2.8.8                       | 0.111        | 0.119       |
| H       | H <sup>+</sup>  | 2.8.8                       | 0.167        | 0.160       |
| I       | I <sup>-</sup>  | 2.8                         | 0.101        | 0.105       |
| J       | J <sup>2-</sup> | 2.8.8                       | 0.103        | 0.109       |

- a) Write the electronic configuration of elements G and F.

(2marks)

.....

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.....

- b) Write an equation for the formation of an ion of D.

(1mark)

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.....

- c) Select element that belong to alkali metals family.

(1½ mark)

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d)

i. Select elements that belong to period 2. (1 ½ mark)

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ii. Compare atomic radii of elements in d (i) above (1 mark)

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e) Explain why the atomic radius of C is greater than its ionic radius. (1 mark)

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f) Compare reactivity of element F and H. Explain your answer. (2 marks)

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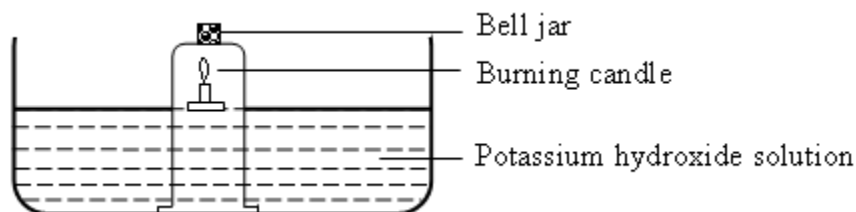
g) Using dot (.) and cross (x) to represent electrons in the outermost energy level draw a diagram to illustrate bonding in the compound formed between H and A. (2 marks)

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2. a) Give one reason why air is classified as a mixture and not a compound.  
(1mark)

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b. An experiment was set up as shown below.



i. Why did the candle go off after some time?  
(1mark)

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.....

ii. Why was potassium hydroxide used and not tap water?  
(1mark)

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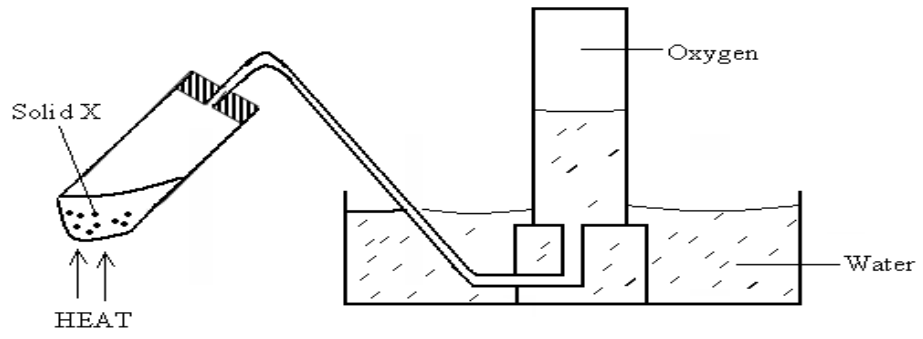
iii. What volume of air was used up by the burning candle, given that the bell jar contained  $800\text{cm}^3$  of air at the start of the experiment? Show your working.  
(2marks)

.....  
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.....

iv. What is the main component of air in the bell jar at end of experiment?  
(1mark)

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.....

c. An experiment to produce and collect oxygen was set up as shown below.



i. Identify solid X .....  
(1mark)

ii. Write a chemical equation for the reaction that produces oxygen above.  
(1mark)

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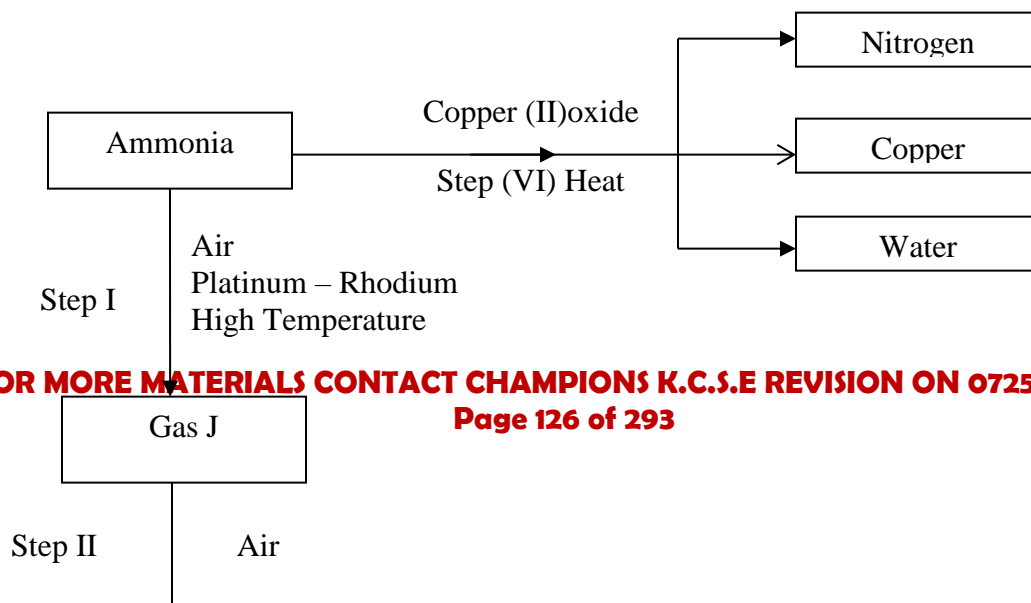
iii. State the physical property of oxygen gas that makes it possible to collect the gas as shown.  
  
(1mark)

.....  
.....  
iv. Give two chemical properties of oxygen.

(2marks )

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3. Study the flow chart below and answer the questions that follow.



**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

i. Identify gas J. ....  
(½ marks)

ii. Name the process represented by step (VI)  
(1 mark)

.....  
.....  
.....

iii. Write a balanced chemical equation for the reaction in step (VI)  
(2 marks)

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.....

iv. Write the equation of the reaction that occurs in step V.  
(2 marks)

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.....

v. Give one use of ammonium nitrate.

(½ mark)

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.....

vi. Which is the best nitrogenous fertilizer between ammonium nitrate ( $\text{NH}_4\text{NO}_3$ ) and Urea  $\text{CO}(\text{NH}_2)_2$ ? (N= 14, H=1, O=16, C = 12, 4 = 1)

(2marks)

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b). The table below shows the observation made when aqueous ammonia was added to cations of elements E, F and G until in excess.

| Caution | Addition of a few drops aqueous ammonia | Addition of excess aqueous ammonia |
|---------|---|------------------------------------|
| E       | White precipitate                       | Insoluble                          |
| F       | No white precipitate                    | No white precipitate               |
| G       | White precipitate                       | Dissolves                          |

i. Select the cation that is likely to be  $\text{Zn}^{2+}$

(1mark)



- .....
- .....
- ii. Given that the formula of the cation of element E is  $E^{2+}$ , write the ionic equation for the reaction between  $E^{2+}_{(aq)}$  and aqueous ammonia.

(1mark)

4.

- a. Give the IUPAC names for the following compounds.

(1 mark)

- i.  $CH_3(CH_2)_5CH_3$

.....

.....

- ii.  $CH_3CH_2CCCH_3$

.....

.....

- b. Petroleum (crude oil) is a source of many hydrocarbons.

- i. Name the process used to separate the components of crude oil.

(½ mark)

.....

.....

- ii. State two physical properties upon which the separation of the components of crude oil is based.

(1mark)

.....

.....

- c. Pentane can be converted into two products by cracking one of the products formed has the formula  $C_2H_6$ .

- i. Write the formula of the second product and name it

(1 mark)

- I. Formula

.....  
.....

II. Name

.....  
.....

ii. Describe a simple chemical test that can be used to distinguish between the two products.  
(2marks)

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d. Ethyne has the formula  $C_2H_2$ . One mole of ethyne was reacted with hydrogen gas.

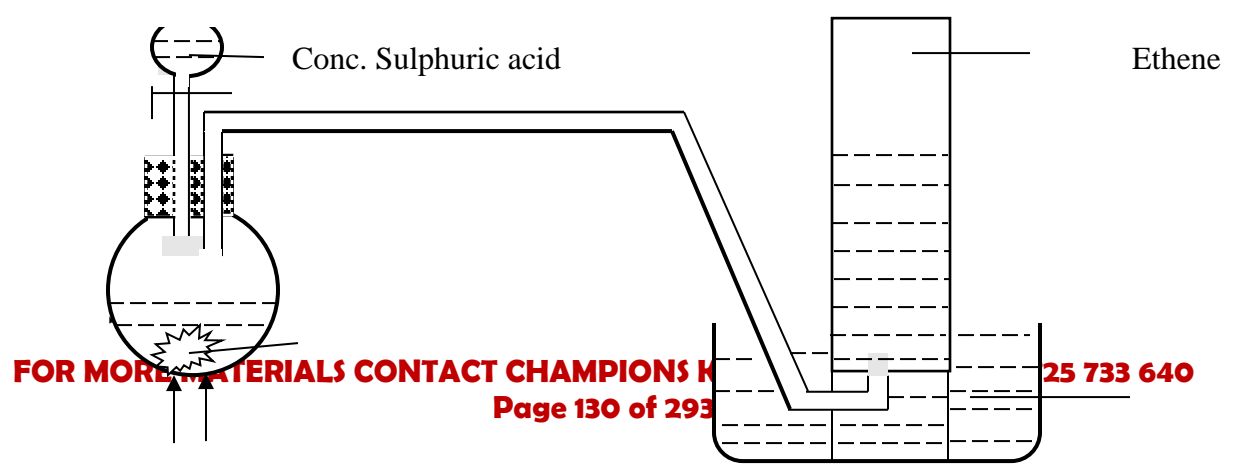
i. How many moles of hydrogen were required to saturate ethyne?  
(1mark)

.....  
.....  
.....

ii. When ethyne is reacted excess hydrogen bromide gas it forms two products  $P_1$  and  $P_2$ . Draw and name the two products  $P_1$  and  $P_2$

(2marks)

.....  
..... The set up below was used to prepare ethene gas.



Heat

iii. Name substance S.....

(½ mark)

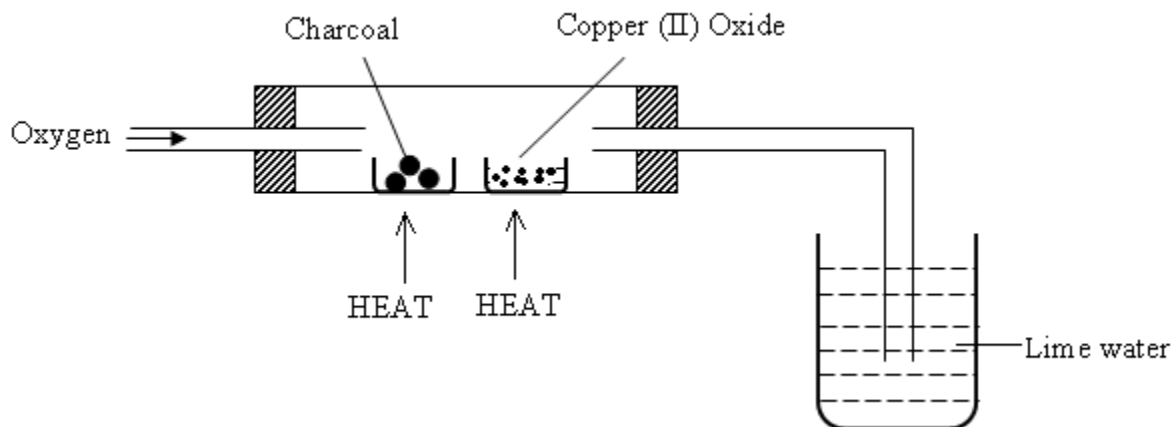
iv. What property of ethene allows it to be collected by the method shown?

(1mark)

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5.

(a) The set up below was used to obtain a sample of copper.



i. Write two chemical equations to represent the reactions taking place in the combustion tube.

(2marks)

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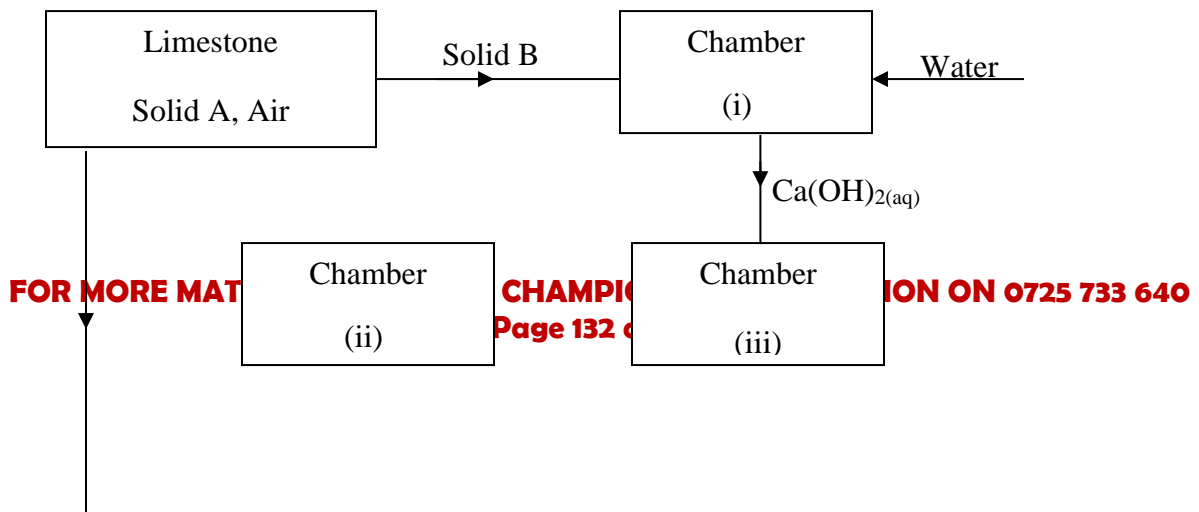
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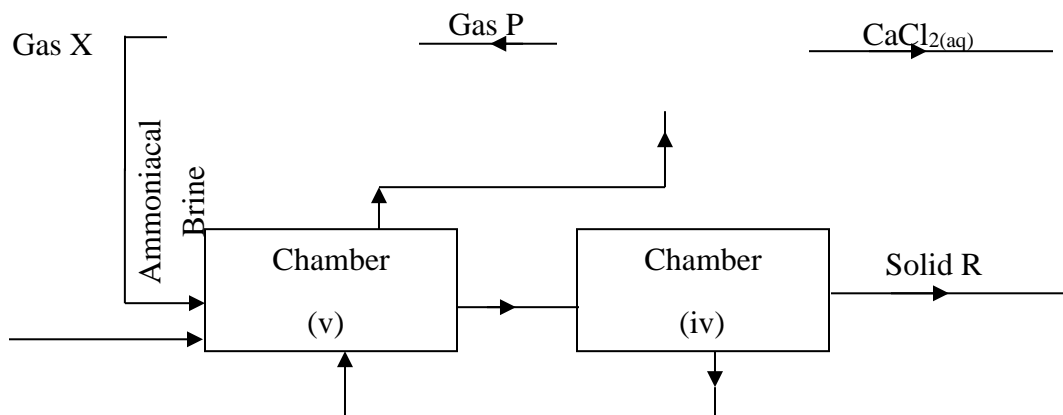
ii. Explain the observation made in the beaker containing lime water.

(2marks)

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(b) The flow chart below shows how sodium carbonate is manufactured by solvay process. Study it and answer the questions that follow.





b. i) Name the following substance.

(3marks)

- a. Gas P .....
- b. Gas X.....
- c. Solid A.....
- d. Solid B.....
- e. Filtrate D.....
- f. Solid R.....

ii) Explain how sodium chloride required for this process is obtained from sea water.

(3marks)

.....  
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 .....

iii) Name one industrial uses of sodium carbonate

(1mark)

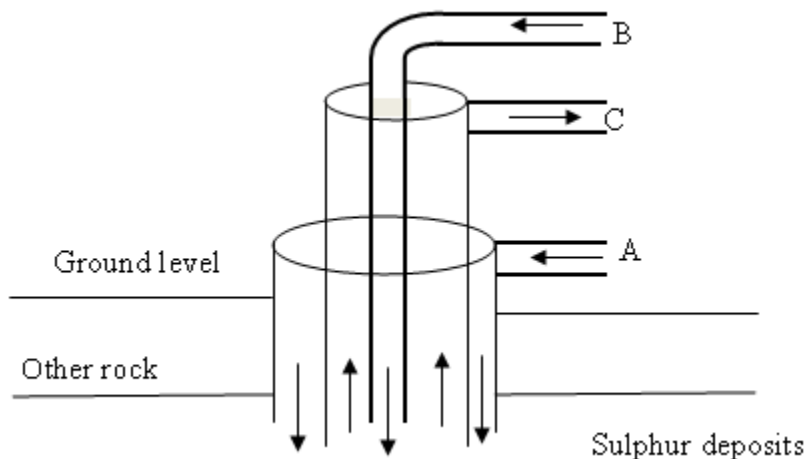
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iv) Write a chemical equation for the reaction that occurs in chamber (II).

(1mark)

.....  
 .....  
 .....

6. The diagram below illustrates how sulphur is extracted by the Frasch process.



(a) Name the substances and the conditions they are in when passing through pipes, A,B and C.

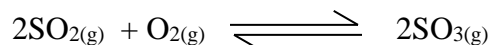
(3 marks)

A .....

B .....

C .....

(b) The equation below show the oxidation of sulphur (iv) oxide to sulphur (vi) oxide.



i. Name the catalyst used in this reaction

(1mark)

.....

ii. Give one use of sulphur (VI) oxide

(1mark)

.....

(c) Two samples of sulphur (IV) gas in water, K and L were treated as follows:-

I SAMPLE K was mixed with a few drops of acidified Barium Chloride solution soon after preparation.

.....  
.....  
.....

II Sample L was mixed with a few drops of acidified Barium Chloride solution 48hrs later.  
Explain the difference in observation that would be made between solution K and L

(1½ mark)

(i) Solution k

(ii) Solution L

(1 ½ mark)

.....  
.....  
.....  
.....

ii. State what is observed when sulphur (IV) oxide gas is passed through a solution of iron (iii) sulphate

(2marks)

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iii. State the different between the bleaching action of sulphur (IV) gas and chlorine gas.  
(2marks)

.....  
.....  
.....  
.....

iv. Write an equation showing the bleaching action of sulphur (IV) oxide on moist coloured dye.

(1mark)

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.....

7.

a) A sample of hydrogen chloride gas was dissolved in water to make 250cm<sup>3</sup> of solution. 25cm<sup>3</sup> of this solution required 46cm<sup>3</sup> of 11.0M sodium hydroxide solution for complete neutralization.

(ii) Calculate the number of moles of hydrochloric acid in 25cm<sup>3</sup> of solution

(3marks)

.....  
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(iii) Determine the mass of hydrogen chloride gas that was dissolved to make 250cm<sup>3</sup> of the solution

(Cl= 35.5, H = 1.0)

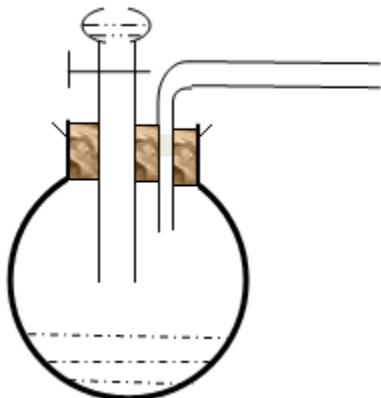
(2marks)

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- i. Complete the diagram below to show how dry hydrogen chloride gas can be prepared and collected in the laboratory.

(2marks)



- ii. Write an equation for the reaction that occur.

(2marks)

.....  
.....  
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.....  
.....

- iii. State and explain the observation that would be made when hydrogen chloride gas is bubbled through a solution of lead (II) nitrate

(2marks)

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- iv. Concentrated hydrochloric acid is used to remove oxides from metal surfaces (prickling) while concentrated nitric acid is not. Explain

(2marks)

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**233/3**  
**CHEMISTRY**  
**PRACTICAL**  
**PAPER 3**  
**TIME: 2¼ HOURS.**

**F3 SET 3 CHAMPIONS HOLIDAY**  
**EXAMS 2020**  
**FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES.**

- Write your name and index number in the spaces provided above.
- Answer **ALL** the questions in the spaces provided.
- You are not allowed to start working with the apparatus for the first 15 minutes of the 2¼ hours allowed time for the paper.
- Use the 15 minutes to read through the question paper and note the chemicals you require

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

- Mathematical tables and electronic calculators may be used.
- All working **MUST** be clearly shown where necessary.

**FOR EXAMINER'S USE ONLY.**

| Question           | Maximum score | Candidate's score |
|--------------------|---------------|-------------------|
| 1                  | 18            |                   |
| 2                  | 16            |                   |
| 3                  | 06            |                   |
| <b>Total score</b> | 40            |                   |

*This paper consists of 7 printed pages.*

*Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

- Your are provided with
  - Solution A which is 0.1M of acid H<sub>x</sub>R
  - Solution B which is prepared by dissolving 11.2g of potassium hydroxide in a litre.

You are required to determine the basicity of the acid H<sub>x</sub>R, solution A.

**Procedure**

- Fill the burette with solution A
- Pipette 25.0cm<sup>3</sup> of solution B and transfer into a chemical flask. Add 2 drops of phenolphthalein indicator and shake.
- Titrate solution B with solution A from the burette until the pink colour turns colourless
- Record your results in the table below.

|  | 1 | 2 | 3 |
|--|---|---|---|
| Final burette reading (cm <sup>3</sup> )     |   |   |   |
| Initial burette reading (cm <sup>3</sup> )   |   |   |   |
| Volume of solution A used (cm <sup>3</sup> ) |   |   |   |

(5marks)

(a) Calculate the average volume of solution A used.

(1mark)

.....  
 .....

(b) Calculate the concentration so solution B in mol dm<sup>-3</sup> (K = 39, O = 16, H =1)

(3marks)

.....  
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(c) Determine the number of moles of solution B (Potassium hydroxide) that reacted.

(3marks)

.....  
 .....  
 .....  
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 .....

(d) Calculate the number of moles of the acid (solution A) that reacted.

(3marks)

.....  
 .....  
 .....  
 .....  
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 .....

(e) Calculate the basicity of the acid.

(3marks)

.....  
 .....

..... You are provided with solid Q. Carry out the tests below and record the observations and inferences in the spaces provided.

(a)

i) Place all the solid Q in a boiling tube and add about 10cm<sup>3</sup> of distilled water and shake thoroughly.

Filter and keep the residue for part (b) below. Divide the filtrate into 3 portions.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |

ii) To the 1<sup>st</sup> portion, add sodium hydroxide solution dropwise till in excess.

| Observations | Inferences |
|--------------|------------|
|              |            |

|     |     |
|-----|-----|
| 1mk | 1mk |
|-----|-----|

iii) To the 2<sup>nd</sup> portion, add a few drops of ammonia solution till in excess.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |

iv) To the third portion, add a few drops of acidified barium nitrate solution.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |

(b)

i) Place all the residue into a clean boiling tube. Add about 5cm<sup>3</sup> of dilute Nitric (V) acid and shake well. Divide the solution into three portions.

| Observations | Inferences |
|--------------|------------|
|              |            |

|     |     |
|-----|-----|
|     |     |
| 1mk | 1mk |

ii) To the 1<sup>st</sup> portion, add a few drops of sodium hydroxide solution till in excess.

| Observations | Inferences |
|--------------|------------|
|              |            |
| 1mk          | 1mk        |

iii) To the 2<sup>nd</sup> portion add a few drops of ammonia solution till in excess.

| Observations | Inferences |
|--------------|------------|
|              |            |
| 1mk          | 1mk        |

iv) To the 3<sup>rd</sup> portion, add a few drops of dilute sulphuric (vi) acid and shake well.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |

2. You are provided with liquid F. Carry out the following tests and record the observations and inferences in the table below.

(a) Dip a strip of paper into the liquid F and burn using non- luminous flame.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |



(b) Put about  $1\text{cm}^3$  of the liquid F in a test – tube and add 2-3 drops of acidified potassium manganate (vii) and shake.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |

(c) Put about  $1\text{cm}^3$  of the liquid F in a test tube and add 2-3 drops of acidified potassium dichromate (vi) and shake.

| Observations | Inferences |
|--------------|------------|
| 1mk          | 1mk        |

**232/1**

**PHYSICS**

**PAPER 1**

**TIME: 2 HOURS**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**  
**Page 146 of 293**

# F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3

*Kenya Certificate of Secondary Education (K.C.S.E)*

## INSTRUCTIONS TO THE CANDIDATES:

- Write your **name and admission number** in the spaces provided above.
- Answer **all** the questions both in section **A** and **B** in the spaces provided below each question
- All workings **must** be clearly shown; marks may be awarded for correct steps even if the answers are wrong.
- Mathematical tables and silent electronic calculators may be used.

### For Examiners' Use Only

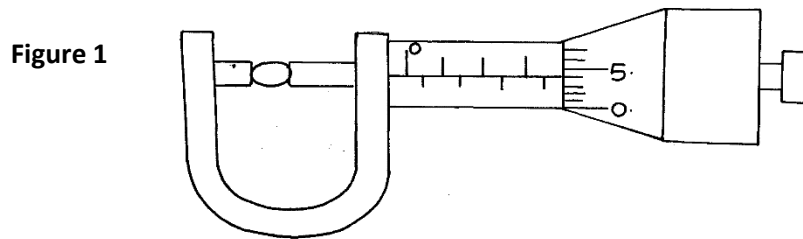
| SECTION   | QUESTION     | MAXIMUM SCORE | CANDIDATE'S SCORE |
|-----------|--------------|---------------|-------------------|
| Section A | 1-11         | 25            |                   |
| Section B | 15           | 14            |                   |
|           | 16           | 12            |                   |
|           | 17           | 16            |                   |
|           | 18           | 13            |                   |
|           | <b>TOTAL</b> | <b>80</b>     |                   |

*This paper consists of 11 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.*

SECTION A (25 MARKS)

Answer ALL the questions in this section in the spaces provided.

1. Figure 1 shows a micrometer screw gauge being used to measure the diameter of a ball bearing.

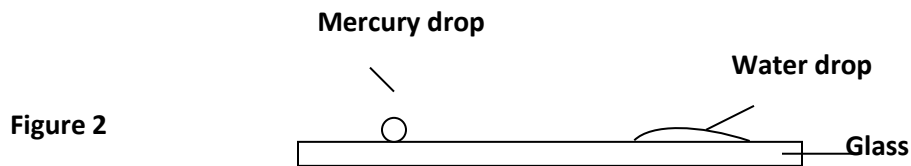


If the instrument has a negative zero error of 0.01mm, record the actual diameter of the ball bearing.

(2mk)

.....

2. Figure 2. shows drops of mercury and water on a glass surface,



Explain the difference in the shapes of the drops.

(2mks)

.....

.....

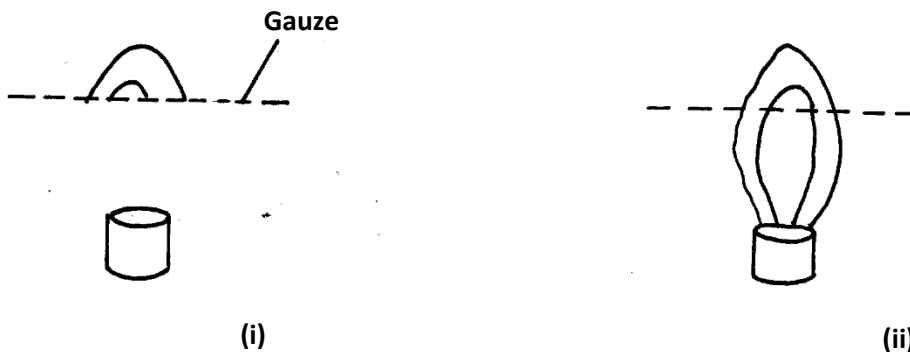
.....

3. State why diffusion is faster in gases than in liquids. (1mk)

.....  
.....

4. When a Bunsen burner is lit above a wire gauze, it is observed that the flame initially burns above the gauze shown in figure 3 (i). After sometime, the flame burns below as well as above the gauze as shown in figure 3(ii).

Fig 3



Explain the observation. (2mks)

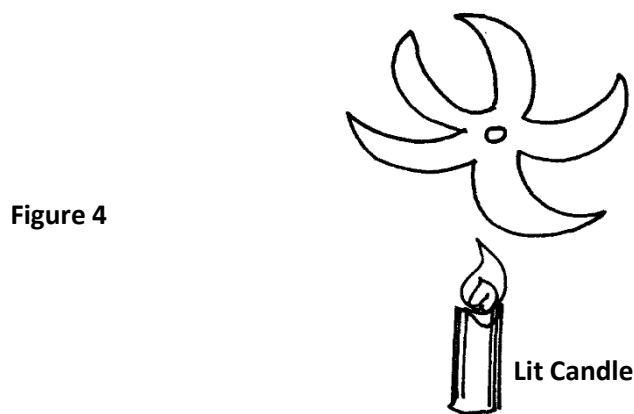
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5. The height of mercury column in a barometer density  $13600\text{kg/m}^3$ , at a place is 64cm. What would be the height of a column of paraffin in barometer at the same place. (Density of paraffin =  $8.0 \times 10^2 \text{ kg/m}^3$ ). (3mks)

6. In an experiment to demonstrate Brownian motion, smoke was placed in a smoke cell and observed using a microscope. The smoke particles were seen moving randomly in the cell. Explain the observation. (1mk)

.....  
.....

7. A paper vane in a horizontal axis was placed above a Bunsen burner as shown in figure 4. When the burner was lit, the paper vane began to rotate. Explain the observation. (2mks)



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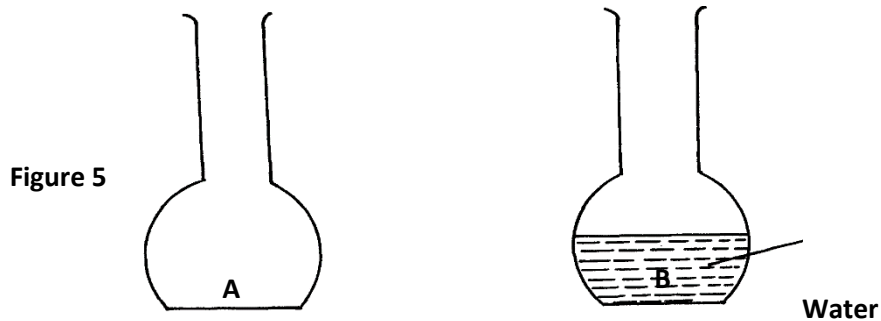
8. An electric kettle with shiny outer surface is more efficient than one with a dull outer surface, give a reason for this. (1mk)

.....  
.....

9. What is the reason why trailers carrying heavy loads have many wheels. (1mk)

.....  
.....

10. Two flasks **A** and **B** were placed on a horizontal surface as shown in figure 5.



State and explain which flask is more stable. (2mks)

.....

11. State Newton's second law of motion. (1mk)

.....

.....

12. A pipe of diameter 12mm is connected to another of diameter 18mm. If water flows in the wider pipe at the speed of 2m/s, determine the speed of water in the narrow pipe.  
(3mks)

.....

.....

.....

13. On the axes provided in the figure 6, sketch the graph showing variation in pressure with volume of a fixed mass of gas that obeys Boyle's law. (1mk)

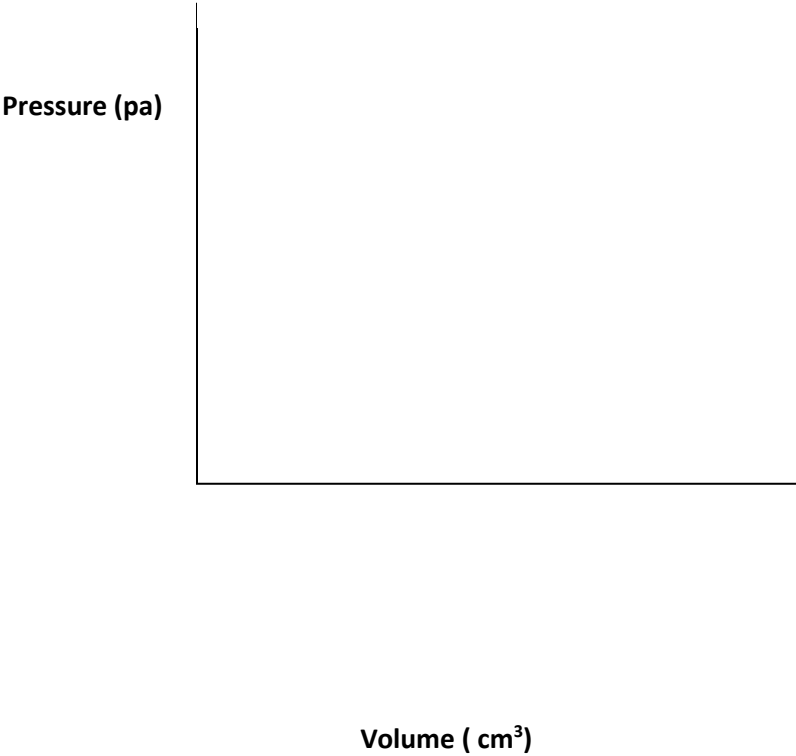




Figure 6

14. An oil drop has a volume of  $0.01\text{mm}^3$ . When it is placed on the surface of water, it spreads out to form a circular patch of area  $500\text{cm}^2$ .

(i) Calculate the size of the molecule of the oil. (2mks)

(ii) State **one** assumption made in (i) above. (1mk)

.....  
.....

SECTION II (55 MARKS)

Answer **ALL** questions in this section in the spaces provided

15. (a) State Pascal's Principle. (1mk)

.....

(b) The diagram in figure 7 below shows hydraulic brake system.

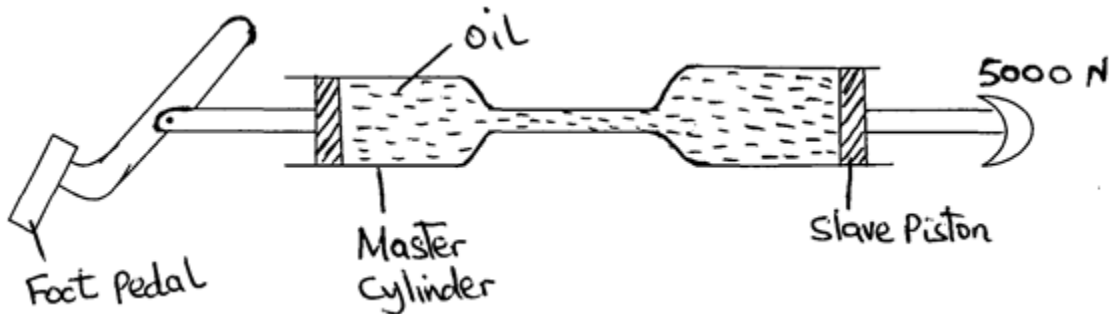


Figure 7

A force of 20N is applied on the foot pedal to a piston of area  $50\text{cm}^2$  and this causes a stopping force of 5000N.

**Determine;**

(i) Pressure in the master cylinder. (3mks)

(ii) Area of the slave piston. (3mks)

(iii) Velocity ratio of the system (3mks)

c) The height of mercury column in a barometer density  $13600\text{kg/m}^3$ , at a place is 64cm. What would be the height of a column of paraffin in barometer at the same place?

(Density of paraffin =  $8.0 \times 10^2 \text{ kg/m}^3$ ). (3mks)

16. a) A machine is a device that enables work to be done more easily and conveniently. State any two ways in which a machine makes work easier. (2Marks)

.....  
.....  
.....

b) Figure 8 shows a wheel and axle being used to raise a load W by applying an effort E. The radius of the wheel is R and of the axle is r.

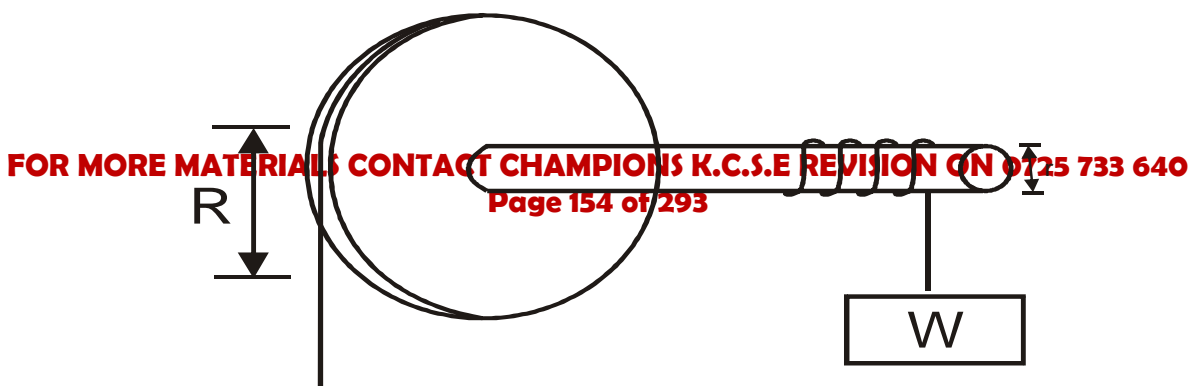


Figure 8

i) Show that the velocity ratio (V.R) of this machine is given by  $\frac{R}{r}$  (3Marks)

ii) Given that  $r = 5\text{cm}$ ,  $R = 50\text{cm}$ , determine the effort required to raise a load of 200N if the efficiency of the machine is 90%. (4Marks)

iii) It is observed that, the efficiency of the machine increases when it is used to lift large loads. Give a reason for this. (1Mark)

.....  
.....

iv) State two reasons why efficiency of a machine is always less than 100%. (2mks)

17. a) i) State three necessary assumptions made in the study of the fluid flow. (3Mark)

.....  
.....  
.....

ii) Highlight any **two** conditions under which the flow of the fluid becomes turbulent.  
(2Marks)

.....  
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b) Figure 9 below shows the cross section of an aeroplane wing, with the aeroplane moving in the direction shown by the arrow.

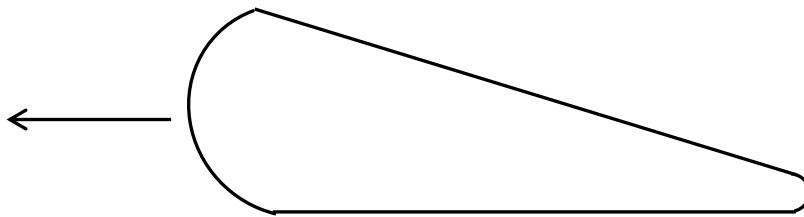


Figure 9

i) Sketch the streamlines to show how air flows past the wing as the aeroplane moves  
(1Mark)

ii) Explain how dynamic lift of the aeroplane is caused by the wing. (3Marks)

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c) The figure 10 below shows a pith ball placed in flask. When a jet of air is blown over the mouth of the flask as shown, the pith ball is observed to rise from the bottom.

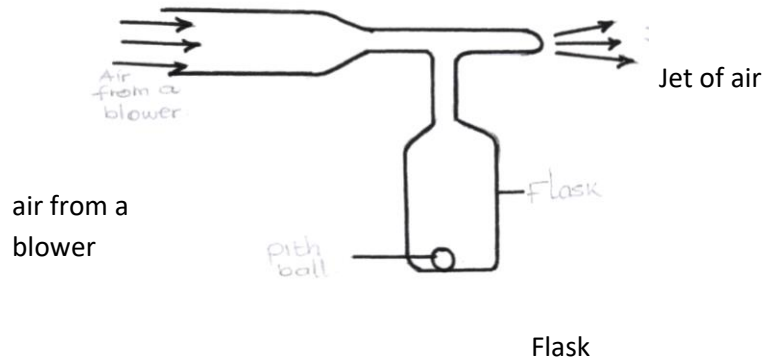


figure 10

Pith ball

Explain this observation.

(2 marks)

.....

.....

c) A water pipe of diameter 5.2cm is connected to another pipe of diameter 1.3cm. The speed of water in the smaller pipe is  $3\text{ms}^{-1}$ . Calculate,

i) The speed of water in the larger pipe.

(2Marks)

ii) The mass flux if the density of water is  $1\text{g/cm}^3$ .

(2 Marks)

18. The tape in figure 11 below was obtained from an experiment using a ticker timer of frequency 50Hz. The tape was pulled by a trolley.

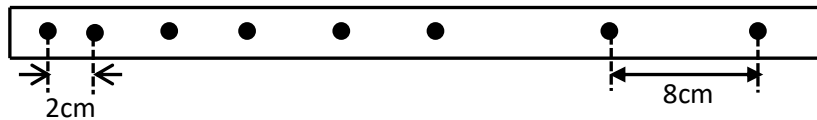


Figure 11

If the trolley that was pulling the tape was accelerating,

- i) Show on the diagram, the direction of acceleration of the trolley. (1Mark)
- ii) Calculate the acceleration of the trolley. (3Marks)

b) A stone is allowed to fall freely from the top of a tower 60 metres high. At the same time, a second stone is thrown vertically upwards with a velocity of 20m/s from the ground. Find;

- i) The time taken by the two stones before they meet. (4Marks)
- ii) The height at which the two stones meet. (2Marks)

d) A rifle of mass 4.0 kg fires a bullet of mass 12.0 g with a muzzle velocity of  $700 \text{ ms}^{-1}$ . Assuming that the rifle is free to move. Find the velocity of recoil. (3mks)

232/2

PHYSICS

Paper 2

Time: 2 Hours

# F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3

*Kenya Certificate of Secondary Education (K.C.S.E)*

## INSTRUCTION TO CANDIDATES

- Write your name and index number in the space provided above.
- Answer ALL questions in the spaces provided in the question paper.
- Mathematical tables and electronic calculators may be used.

FOR EXAMINER'S USE ONLY

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640  
Page 159 of 293**

| SECTION     | QUESTIONS | MAXIMUM SCORE | CANDIDATE'S SCORE |
|-------------|-----------|---------------|-------------------|
| I           | 1 - 11    | 25            |                   |
| II          | 12 - 20   | 55            |                   |
| TOTAL SCORE |           |               |                   |

*This paper consists of 10 printed pages.*

*Candidates should check the question paper to ascertain that all the*

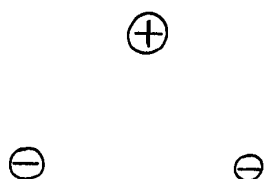
*Pages are printed as indicated and no questions are missing*

### SECTION I (25 Marks)

**Answer all questions in the spaces provided**

1. Draw the electric field pattern around the charges shown below.

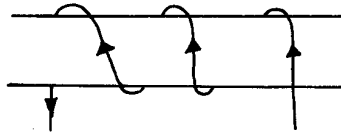
(2 mks)



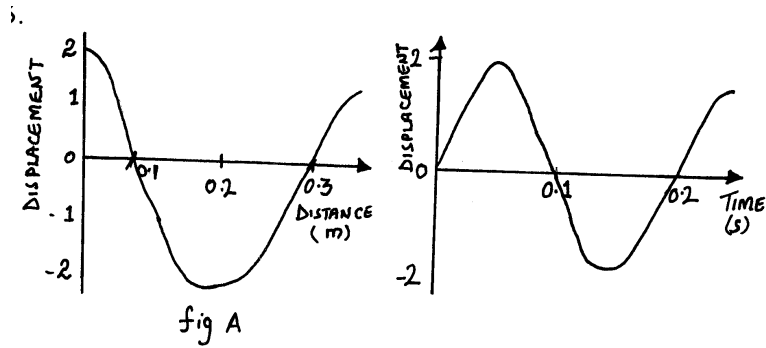
2. Sketch the magnetic field for a conductor shown in the figure below.

(2 mks)





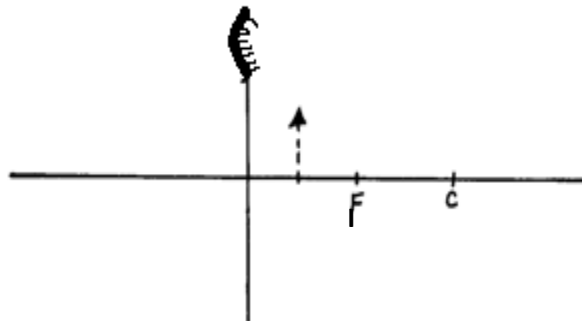
3. The graphs in the figure below represent the same wave.



Determine the velocity of the wave.

(3 mks)

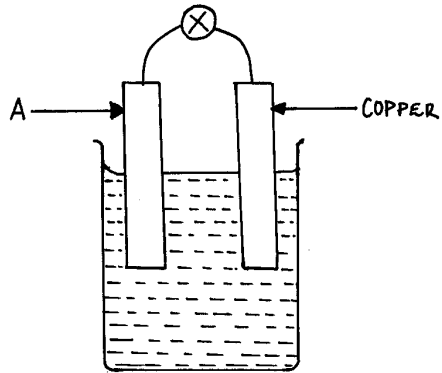
4. a) The figure below shows the image I, formed in a convex mirror. Complete the ray diagram to show the position of the object. (2 mks)



b) Describe images formed by convex mirrors.

(2mks)

5. The figure below shows the set – up for a simple cell.



(i) Name the electrode A.

(1 mk)

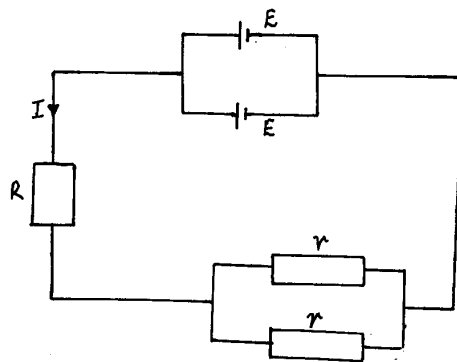
(ii) Explain why the bulb goes off after only a short time.

(1 mk)

(iii) How can the problem stated above be corrected.

(1mk)

6.



Using the circuit diagram above write formula relating  $E$ ,  $I$ ,  $R$  and  $r$ . (2 mks)

7. A thick sheet of plastic,  $n = 1.5$ , is used as the side of an aquarium tank. Light reflected from a fish in the water has an angle of incidence of  $35^\circ$ . At what angle does the light enter the air. (3 mks)
  
8. In a pin – hole camera, what is the effect of making the pin – hole small but square in shape? (1 mk)
  
9. Suggest a reason why it is not possible to increase the strength of a magnet indefinitely. (1 mk)
  
10. Two heaters A and B are connected in parallel across 240V mains supply. Heater A is rated 1000W and B is rated 2500W. Calculate the ratio of their resistance  $\frac{R_A}{R_B}$ . (2 mks)

11. Two mirrors are inclined at an angle of  $74^\circ$  to each other. Calculate the numbers of images formed (2 Marks)

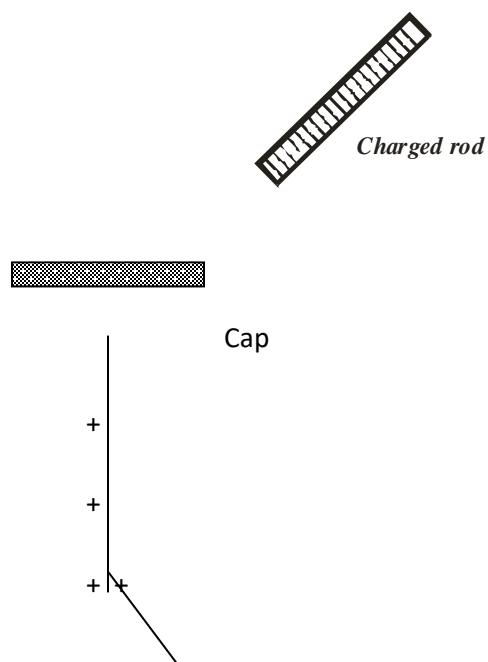
**SECTION II (55 Marks)**

**Answer ALL questions in the spaces provided**

12. (a) State two advantages of a lead – acid accumulator over a nickel – iron accumulator (2 Marks)

- (b) State three maintenance practices for lead-acid accumulators (3mks)

- (c) Figure 7 below shows a highly negatively charged rod being brought slowly near the cap of a positively charged electroscope.



+

Figure 7

State and explain what will be observed happening to the leaf of the electroscope

(3 Marks)

13. Figure 8 below shows how keepers are used to store magnets A and B. Polarity of magnet A is given.

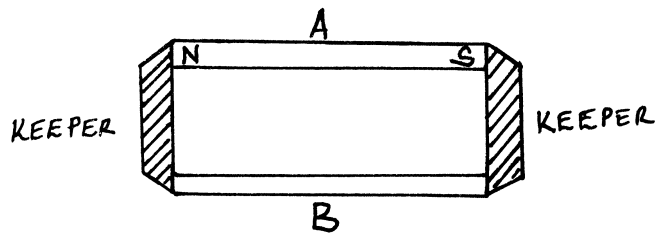


Figure 8

- (i) Mark on the diagram the polarity of magnet B for correct storage habit. (2 Marks)
- (ii) Briefly explain how the keepers assist in storing the magnets (3mks)

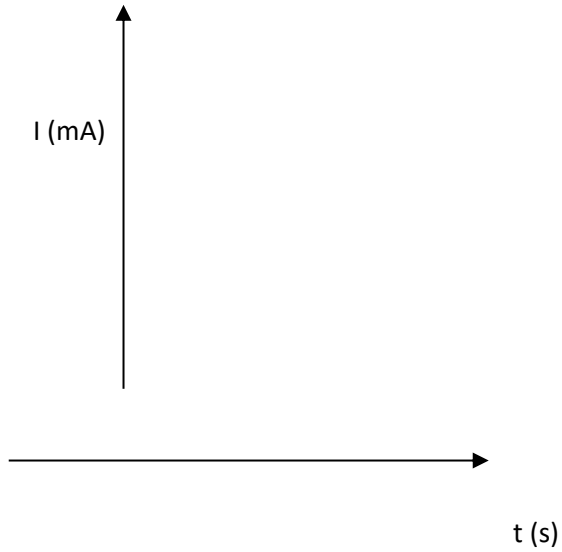
14. a) State any two factor that determines the capacitance of a parallel plate capacitor

(2 Mark)

- b) You are provided with the following A  $500\mu\text{f}$  capacitor which is uncharged, a 6.0 V power source, a rheostat of range  $100 - 10,000\Omega$ , a voltmeter, a millimeter, a switch, connecting wires and a stopwatch.

(i). Draw a circuit diagram using above approaches given, that can be used to show how the charging of the capacitor can be done. (2 Marks)

(ii) In the axes provided below sketch a graph showing how charging current varies with time. (1 Mark)



(iii) Briefly explain the use of stopwatch in this experiment (1 Mark)

c) Three capacitors of capacitance  $3\mu\text{f}$ ,  $4\mu\text{f}$  and  $5\mu\text{f}$  are arranged as in figure 9 below with a 10V battery across it.

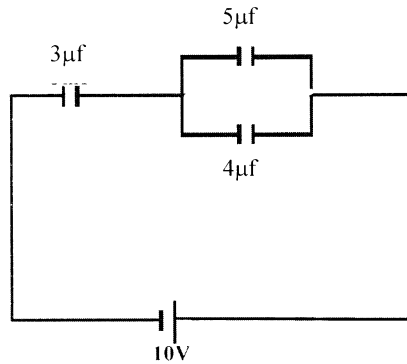


Fig. 9

Calculate the charge stored in the  $5\mu\text{f}$  capacitor

(4 Marks)

15. a) Figure 10 below shows a ray of white light incident on the surface of a glass prism.

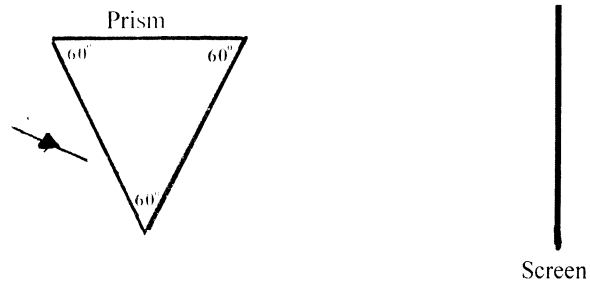


Fig. 10

(i) Complete the path of the ray until it reaches the screen

(use only two extreme rays)

(2 Marks)

(ii) Mark on the diagram the two rays as they appear on the screen

(1 Mark)

(iii) What colours will be observed on the screen if white light was replaced by

yellow light?

(1 Mark)

16. Figure 1 below shows two rays p and q entering a semi circular glass block whose critical angle is  $44^\circ$  the rays are incident at an air glass boundary at point O.

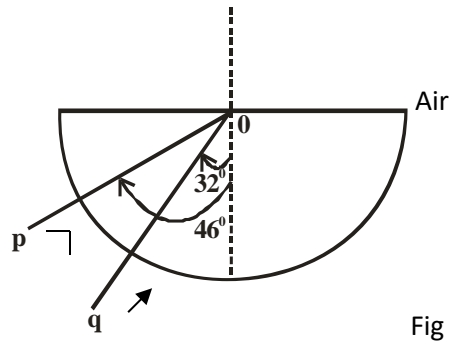


Fig 1

- a) Complete the path of the two rays from point O. Label P' and q' the corresponding rays (2 Marks)
- b) Calculate the refractive index of the material of the glass used above (3 Marks)

17. The following table shows some electrical appliances to be used in a house. The electrical ratings for each appliance are shown. The following fuses are available, 5A, 15A, 30A and 45A.

| Appliances      | Voltage (v) | Power (w) |
|-----------------|-------------|-----------|
| TV              | 250         | 300       |
| Iron Box        | 250         | 750       |
| Electric Kettle | 250         | 2000      |

- a) Determine the resistance of the coil of the electric kettle (3 Marks)
- b) Determine which one of the fuses is suitable for the house (2 Marks)

18. Figure 3 below shows a negatively charged conductor resting on an insulator





Insulator

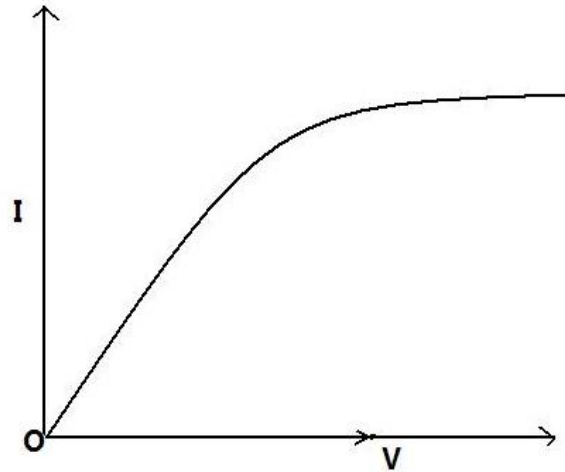


Figure 3

- a) Show the distribution of charge on the conductor (1 Mark)
- b) A proof plane is made to touch the part marked A and then transferred to the cap of a negatively charged electroscope. State and explain what you will observe in the leaf of the electroscope. (2 Marks)

19. (a) A car battery is used to light a 12V lamp A constant current of 3 A passes round the circuit.
- (i) **Explain** what happens to the energy of the electron as they flow through the lamp wire. (3mks)
- (ii) **How** much energy is transferred by the lamp in 20 seconds? (2mks)

- (b) For a particular specimen of wire, a series of readings of the current through the wire for different potential differences across it is taken and plotted as shown.



- (i) **Explain** how the resistance of the wire changes (3mks)
- (iii) **How** would the resistance of a piece of wire change if
- (I) The length were doubled (2mks)
- (II) The diameter were doubled (2mks)

20. A soldier standing between 2 cliffs fires a gun. He hears the first echo after 2s and the next after 5s. **Determine** the distance, between the two cliffs  
(Take speed of sound as 340 m/s.) (3mks)

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**PHYSICS**

**PAPER 3**

**(PRACTICAL)**

**2 ½ HOURS**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES**

- ❖ Write your name and index number in the spaces provided above.
- ❖ This paper consists of **two** questions, Question **1** and question **2**.
- ❖ Answer **ALL** the questions in the spaces provided in the question paper.
- ❖ You are not allowed to start working with the apparatus for the first ¼ hours of the 2 ½ hours allowed for this paper. This time is to enable you read the question paper and make sure you have all the apparatus you may need.
- ❖ Marks are given for a clear record of the observations actually made, for their suitability and accuracy and the use made of them.
- ❖ Candidates are advised to record their observations as soon as they are made.
- ❖ Mathematical tables and electronic calculators **may be** used in calculations.

**FOR EXAMINER'S USE ONLY**

| <b>Question</b> | <b>Maximum Score</b> | <b>Candidate's Score</b> |
|-----------------|----------------------|--------------------------|
| <b>1</b>        | 20                   |                          |
| <b>2</b>        | 20                   |                          |
| <b>Total</b>    | <b>40</b>            |                          |

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

**Page 171 of 293**

*This paper consists of 6 printed pages.*

*Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.*

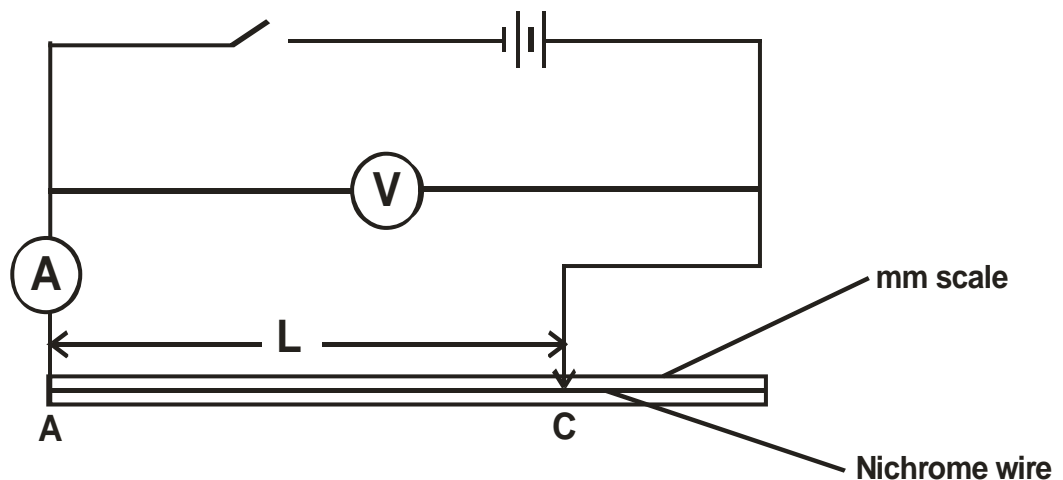
**PART A**

1. You are provided with the following apparatus.

- Two dry cells.
- Nichrome wire 100cm on a mm scale.
- An ammeter.
- Cell holder.
- Voltmeter.
- Connecting wires with crocodile clips.
- Switch.

Proceed as follows;

a) Connect the circuit as shown in the diagram.



- b) Connect the ends A and C where AC is the length L of the Nichrome wire across the terminals as shown. Close the switch and measure both current I and potential difference (P.d) across the wire AC when  $L = 100\text{cm}$ .

Current I = .....

(1 mark)

P.d, V = .....

(1 mark)

- c) Measure the E.m.f of the cells, E.

E = .....

(1 mark)

- d) Reduce the length L (AC) to the lengths shown in the table below. In each case record the current, I, and the corresponding P.d.

| Length L (cm) | 100 | 70 | 60 | 50 | 40 | 20 |
|---------------|-----|----|----|----|----|----|
| I (A)         |     |    |    |    |    |    |
| P.d (V)       |     |    |    |    |    |    |
| E – V (v)     |     |    |    |    |    |    |

(

7 marks)

- e) Plot a graph of  $E - V$  against I(A) on x-axis in the grid provided.

(5 marks)

- f) Determine the slope of the graph.

(3 marks)

- g) Given that  $E = V + Ir$ , determine the internal resistance, r, of each cell.

(2 marks)

2). You are provided with the following

- A rectangular glass block

- Four optical pins
- A plane mirror mounted on a piece of wood to stand vertically
- Soft board
- Sheet of paper
- Four thumb pins/office pins
- Vernier callipers

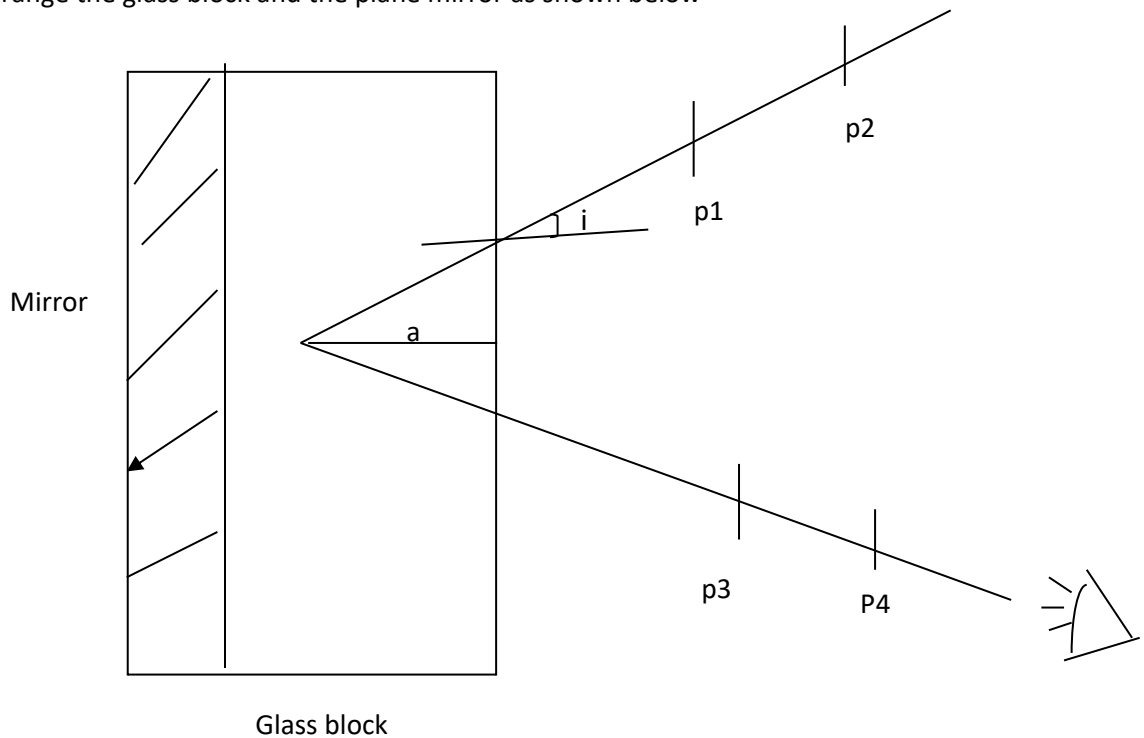
a) Place the plain sheet of paper on the soft board and fix it using the thumb pins. Place the glass block

on the soft board and trace its outline.

b) Remove the glass block and draw a normal line at about 2cm from the end of the longer side of the glass block outline.

c) Draw a line at an angle  $i = 10^\circ$  from the normal. Fix two pins  $P_1$  and  $P_2$  on the line, at least 6cm from each other.

d) Arrange the glass block and the plane mirror as shown below



(e) Fix pins P3 and P4 such that they appear to be in line with image of P1 and P2.

Measure the distance a

(f) Repeat the procedure for other values of i and complete the table

|                 |    |    |    |    |    |    |
|-----------------|----|----|----|----|----|----|
| Angle $i^\circ$ | 10 | 20 | 30 | 40 | 50 | 60 |
| Distance a (cm) |    |    |    |    |    |    |

(5mks)

(g) Plot a graph of a (y-axis) against i (5mks)

(h) Find the slope of the graph (3mk)

(i) Use your graph to determine the maximum value of a (1mk)

(j) Given that  $a = mi + k$  where m and k are constants, find the values of m and k. (2mk)

(k) Measure the width of the refracting glass using the vernier calipers

W =

(1mk)

(i) For  $i = 30^\circ$  determine the value of  $x = \frac{w}{a}$  (2mks)

(m) What physical quantity does x represent

(1mk)

NB hand in the sheet of paper with the traces representing the rays of light you used for determining a and i

**311/1**

**HISTORY AND GOVERNMENT**

**Paper 1**

**Time: 2 ½ Hours**

# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES:**

- *This paper consist of **three sections A, B and C***
- *Answer all the questions in **section A**, any **three** questions from **section B** and any **two** questions from **section C**.*
- *Answers to all questions must be written on the answer sheets provided.*

**SECTION A (25 MARKS)**

**Answer All Questions in this Section.**

1. Identify **two** ways used by archeologist in Kenya to locate archeological sites. (1mk)
2. Name *two* tribes of the Mijikenda.  
(2mks)
- 3 State **two** religious function of the Orkoiyot among the Nandi during the Pre-colonial period.(2mks)

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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4. Identify **one** natural factor that facilitated the coming of Arabs to the Kenyan coast. (1mks)
5. State **one** way in which freed slaves promoted the spread of Christianity. (1mk)
6. Identify the engineer who led the construction of Uganda railway. (1mk)
7. Outline **two** ways in which colonial land policies promoted settler farming. (2mks)
8. Give **two** terms of the Devonshire white paper of 1923. (2mks)
9. State **two** characteristics of early political parties established in Kenya before 1939. (2mks)
10. Outline **two** roles played by women in the struggle for independence in Kenya. (2mks)
11. State **one** duty of the British Governor in Kenya during the colonial period (1mk)
12. State **two** ways in which the Kenyan constitution promote national unity. (2mks)
13. Name **one** settler farmer who introduced wheat farming in Kenya. (1mk)
14. Give **two** positive methods of resolving conflict in Kenya today. (2mks)
15. Identify **two** non military functions of the Kenya defence force. (2mks)

**SECTION B 45MKS**

**Answer any three questions from this section**

16. State **three** factor that led to the Migration of cushites speakers from their cradle land. (3mks)
- b) Describe the effects of long distance trade in Kenya during the 19<sup>th</sup> century. (12mks)
17. Give **three** reasons why the British used direct rule in administering most parts of Kenya.(3mks)
- b) Why did the Imperial British East Africa company come to an end in 1896. (12mks)
18. What were the reasons for construction the Kenya Uganda railway. (3mks)
- b) Explain **six** effects of construction of the Uganda railway (12mks)1
19. Give **five** reason for the emergence of African Independence school and churches. (5mks)
- b) Explain **five** challenges that faced independent schools during the colonial period. (10mks)

**SECTION C 30MKS**

**Answer any two questions from this section**

- 20a) Outline **five** values of a good citizenship in Kenya. (5mks)
- b) Describe five ways in which the Bill of Right of an individual in Kenya. (10mks)

21a) Identify **five** symbols of national unity. (5mks)

b) Discuss the steps that have been taken by the Kenyan government to promote National integration  
(10mks)

22a) Give **five** reasons why parliament election are held regularly in Kenya. (5mks)

b) Explain **five** factors that may interfere with free and fair elections.

**311/2**

**HISTORY & GOVERNMENT**

**PAPER 2**

**TIME: 2 ½ HOURS**

## **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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# FORM 3

## *Kenya Certificate of Secondary Education (K.C.S.E)*

### INSTRUCTIONS TO THE CANDIDATES:

- This paper consists of **three** sections: A, B & C.
- Answer **all** questions in section **A**, **three** questions in section **B** and any **two** questions in section **C**.
- All answers **must** be written in separate answer sheets

### SECTION A (25 MARKS)

#### *Answer all questions in this section*

1. Name **one** evolutionary stage of early man before Australopithecus (1mk)
2. Give **one** invention which revolutionised early man's life during the middle stone. (2mks)
3. Name **one** ancient type of writing that developed in Egypt as a result of agriculture (1mk)
4. State **two** reasons for the emerge of early urban centers in Africa (2mks)
5. Give the **main** commodity of trade exported from West Africa during the trans-Saharan trade (1mk)
6. State **two** factors that led to the rise of Buganda kingdom in 19<sup>th</sup> centaury (2mks)
7. Give **two** reasons why the camel is referred to as the ship of the desert (2mks)
8. Give the **main** method of obtaining slaves during the triangular trade (1mk)
9. State **two** advantage of cell phone as the most used modern means of communication (2mks)
10. Give the **main** importance of the golden stool in the Asante kingdom Empire. (1mk)
11. State **two** methods used by Europeans powers to acquire colonies in Africa in the 19<sup>th</sup> century 2mks
12. Name the founder of indirect system of administration as applied by the British during

- Colonial rule  
(1mk)
13. Name **two** countries that were French spheres of influence in West Africa (2mks)
14. Name **two** countries in Africa where company rule was applied during the initial stages  
Of colonialism 2mks
15. Give **one** developmental right of a child as contained in the UN Charter on human right (1mk)
16. Give **one** reason why election are held in African countries (1mk)
17. Mention **two** nationalist leaders who spearheaded the liberation of Ghana (2mks)

### SECTION B 45MKS

**Answer any three questions in this section**

- 18 a) Give **three** characteristic of agriculture in Britain before the Agrarian Revolution (3kmks)  
b) Explain **six** factors that favored Agrarian revolution (12mks)
- 19 a) State **three** roles of Tuaregs in the Trans-Saharan trade on the people of West Africa (3mks)  
b) Describe **six** positive impact of Trans-Saharan trade on the people of West Africa (12mks)
20. State **five** factors which enabled Samori Toure to resist the French for a long period (5mks)  
b) Explain **five** reasons why the mandinka were finally defeated by the French (10mks)
- 21 a) State **five** methods used in the liberation of South Africa from the minority colonial rule(5mks)  
b) Explain **five** reasons why nationalism in South Africa was protected (10mks)

### SECTION C 30MKS

**Answer any two questions from this section**

- 22 a) State **five** function of lukiko in the Buganda kingdom (5mks)  
b) Describe the political organization of the Shona during the Pre-colonial period (10mks)
- 23 a) Give three factors that determine the type of a constitution to be adopted by a state (3mks)  
b) Explain **six** function of a constitution (12mks)
- 24a) Mention **three** methods of exercising direct democracy (3mks)

b) Explain **six** principles of democracy

(12mks)

**312/1**

**GEOGRAPHY**

**PAPER 1**

**TIME: 2 ¾ HOURS**

# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTIONS TO CANDIDATES:**

- This paper consists of **two** sections **A** and **B**.
- Answer **all** the questions in section **A**. In section **B**, answer question **6** and any other **two** questions.
- **All** answers **must** be written in the answer booklet provided.

**SECTION A**

1. (a) Distinguish between an orbit and an axis.  
(2 mks)

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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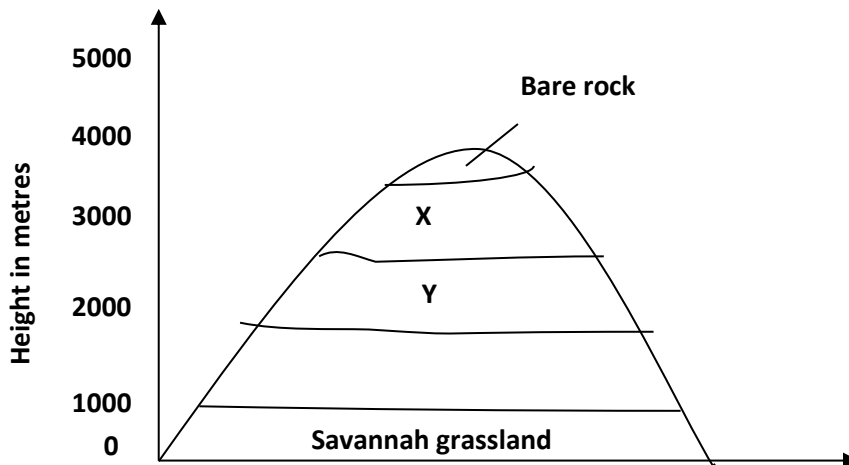
(b) State **three** proofs that the interior of the earth is hot.  
(3 mks)

2. (a) What is a **spring**?  
(1 mk)

(b) State **four** ways in which a spring may develop.  
(4 mks)

3. (a) The diagram below represents zones of natural vegetation on a mountain within the tropical region.

Study it and answer questions that follow:

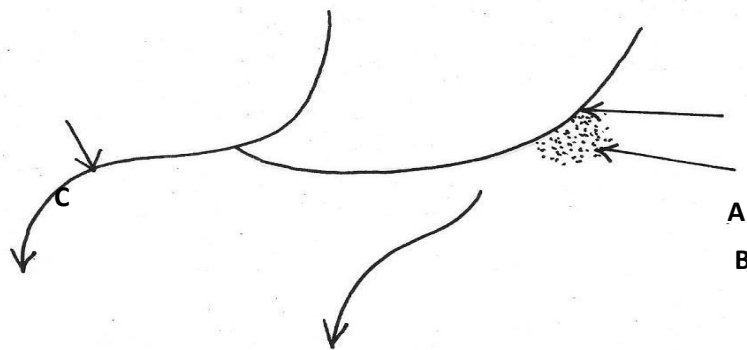


(a) Name the vegetation zones marked **X** and **Y**.

(2 mks)

- (b) State **three** characteristics of Mediterranean types of vegetation. (3 mks)
4. (a) Give **two** processes of slow mass wasting. (2 mks)
- (b) State **three** physical conditions that may influence landslides. (3 mks)
5. (a) State **two** ways through which rivers transport its loads. (2 mks)

(b) The diagram below represents a river captive.



Name the parts marked **A, B** and **C**.  
(3 mks)

**A** .....

**B** .....

**C** .....

**SECTION B.**

*Answer question **6** and any other **two** questions in this section.*

6. Study the map of Kitale ( **1: 50,000**) sheet **75/3** provided and answer the following questions.

a) (i) Name the relief feature found in grid square **2823**. (1 mk)

(ii) Determine the distance of road **B 10/2** from Knight's corner junction with **Road C 637** to Kitale. (2 mks)

(iii) Find the area of **Kiptaberr Forest**. (2 mks)

b) (i) Calculate the gradient of the slope between point **M** and **N**. (2 mks)

ii) Identify the highest point in the area covered by the map.  
(2 mks)

c) Farmers at Delgany Farm carried out a study at their colleagues' farm of Longleat Estate.

(i) State **two** reasons why they would need the map of Kitale. (2 mks)



- (ii) Mention **two** methods they would use to collect data. (2 mks)
- (iii) Identify **three** data /information they would collect. (3 mks)
- d) (i) Describe the distribution of settlement in area covered by the map. (4 mks)
- (ii) Citing evidence from the map; identify **two** factors which have influenced the growth of forests in Kitale area. (2 mks)
- (iii) State **three** functions of Kitale town. (3 mks)

7. a) (i) What is a rock? (2 mks)
- (ii) Explain the process of formation of mechanically formed sedimentary rocks. (5 mks)
- b) Explain **three** ways in which rocks are significant to the economy of Kenya. (6 mks)
- c) Student from your school carried out a field study on the types of Rocks.
- One of the rock samples they collected was coral.
- (i) Give **three** uses of coral rock. (3 mks)
- (ii) Give **three** reasons why it was important for them to conduct reconnaissance. (3 mks)
- (iii) State **three** problems they are likely to have encountered during the field study. (3 mks)

8. a) (i) What are Earthquakes? (2 mks)

(ii) Name **three** types of Earthquake waves.

(3 mks)

(iii) State **five** ways in which the Earth crust is affected by Earthquakes. (5 mks)

b) (i) With the aid of a well-labelled diagram describe how the rift valley is formed by tensional forces.

(8 mks)

(ii) State **four** effects of faulting to human activities. (4 mks)

(iii) Give **two** advantages of studying faulted landscape through field work. (2 mks)

9. a) Name **three** types of desert surfaces.

(3 mks)

b) Explain the following process of wind erosion

(i) Abrasion

(2 mks)

(ii) Deflation

(2 mks)

(iii) Attrition

(2 mks)

c) With the aid of a diagram, describe how a rock pedestal is formed.

(6 mks)

d) Draw a diagram of an overhead view of a desert basin. On it mark and name the following features resulting from water action.

(i) Alluvial

(ii) Pediment

(iii) Playa

(iv) Bajada

(5 mks)

10. a) (i) What is climate?

(2 mks)

(ii) Explain **two** effects of climate change on the physical environment. (4 mks)

b) (i) State **five** characteristics of Inter Tropical Convergence Zone. (ITCZ) (5 mks)

(ii) Describe how convectional rainfall is formed. (7 mks)

(iii) State **three** problems associated with convectional rainfall in the lake region of

Kenya.

(3 mks)

**312/2**

**GEOGRAPHY**

**PAPER 2**

**TIME: 2 ¾ HOURS**

# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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# FORM 3

## *Kenya Certificate of Secondary Education (K.C.S.E)*

### INSTRUCTIONS TO CANDIDATES:-

- This paper consists of **two** sections; section **A** and section **B**.
- Answer **all** questions in section **A**. In section **B** answer question **6** and any other **two** questions.
- All answers **must** be written in the provided sheets.

### SECTION A

#### Answer all questions in this section

- (a) State **three** ways in which minerals occur. (3 mks)
  - (b) Name **three** methods of mining. (3 mks)
  
- (a) What is pastoralism?  
(3 mks)
  - (b) State any **three** measures being taken by the Kenya government to improve pastoral farming in Kenya. (3 mks)
  
- (a) State **two** characteristics of horticulture farming in Kenya. (2 mks)
  - (b) State **two** factors that favor horticulture in Netherland. (2 mks)

4. (a) What is a photograph?  
(2 mks)
- (b) Name **three** types of ground photographs. (3 mks)
5. (a) Outline **three** advantages of using a pie chart to represent data. (3 mks)
- (b) Define statistical data.  
(1 mk)
6. The table below represents agricultural crops exported from Kenya between 1993 – 2003.

**EXPORTS IN TONNES**

| Crop         | 1999  | 2000  | 2001  | 2002  | 2003  |
|--------------|-------|-------|-------|-------|-------|
| Horticulture | 17641 | 21216 | 19846 | 28332 | 36485 |
| Tea          | 33065 | 35150 | 34485 | 34376 | 33005 |
| Coffee       | 12029 | 11707 | 7460  | 6541  | 6286  |

- (a) Using a scale of 1 cm rep. 2000 tonnes, draw a comparative line graph exports per crop between 1999 – 2003  
(10 mks)
- (b) (i) Describe the trend in coffee earnings (1999 – 2003) (2 mks)
- (ii) Give **four** possible reasons for the trend observed. (4 mks)
- (c) (i) Identify **three** counties producing coffee in Kenya. (3 mks)
- (ii) Outline **four** physical problems faced by farmers in Kenya in the recent past. (4 mks)

- (d) State any disadvantages of using comparative line graph to represent data. (2mks)
7. (a) (i) Name any **four** mineral mined in Kenya. (4 mks)
- (ii) Outline **three** methods of mining. (3 mks)
- (b) (i) List any **two** sea parts through which some of the minerals mined in East Africa are exported. (2 mks)
- (ii) State any **five** factors that influence exploitation of minerals. (5 mks)
- (c) Explain **three** ways in which soda ash contributes to the economy of Kenya. (6 mks)
- (d) Ways in which mining derelicts can be reclaimed. (5 mks)
8. (a) (i) Define Agro forestry. (2 mks)
- (ii) Outline **four** benefits of Agro forestry. (4 mks)
- (b) (i) List any **three** types of tropical hardwood species found in Kenya. (3 mks)
- (ii) Explain **three** problems hindering the exploitation of tropical hardwood forests. (6 mks)
- (c) State **four** measures that the Kenyan government is taking to conserve forest in the country. (4 mks)
- (d) Compare softwood in Kenya and Canada under the following sub-topics
- (i) Species (2 mks)
- (ii) Problems (2 mks)

(iii) Marketing  
(2 mks)

9. (a) (i) Name **three** exotic dairy breeds reared in Kenyan highland. (3 mks)

(ii) Name **two** products from milk. (2 mks)

(b) Explain **four** importance of dairy farming in Kenya.  
(8 mks)

(c) (i) What is beef farming? (2 mks)

(ii) Explain **five** limitations of beef farming in Kenya. (10 mks)

**313/1**

**CHRISTIAN RELIGIOUS EDUCATION**

**Paper 1**

**Time: 2 ½ Hours**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

*Kenya Certificate of Secondary Education (K.C.S.E)*

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

**Page 191 of 293**

**INSTRUCTIONS TO CANDIDATES:**

- This paper consist of **six** questions
- Answer any **five** questions from this paper in the answer booklet provided.

***Answer any five questions from this paper in the answer booklet provided***

1. (a) With reference to the biblical account of creation, outline major aspects of the second creation according to Genesis 2:3b-25.

(8mks)

- (b) Explain how God showed mercy to the fallen man in the Garden of Eden.

(8mks)

- (c) Identify **four** causes of evil in Kenya today.

(4mks)

- 2 (a) Explain how the promises given to Abraham were fulfilled among the Jewish.

(8mks)

- (b) Outline conditions for the renewal of the Sinai Covenant.

(7mks)

- (c) State **five** lessons Christians learn from the incident when the Israelites worshipped the golden calf.

(5mks)



3 (a) State **five** challenges that affected the Israelites as they settled in Canaan.

(5mks)

(b) Explain **seven** failures of King Solomon as King of Israel.

(7mks)

(c) Give reasons why some leaders are rejected in society today.

(8mks)

4. (a) State **five** categories of prophets.

(5mks)

(b) Explain **four** aspects that characterized the hypocrisy of the religion of the Israelite people

(5mks)

(c) Give the relevance of Amos' teachings to Christians today.

(7mks)

5. (a) State the religious reforms carried out by King Josiah.

(6mks)

(c) Explain the religious background of Nehemiah's work.

(8mks)

(c) Give **six** ways in which Christians dedicate themselves to God.

(6mks)

6. (a) Describe the African understanding of the hierarchy of beings.

(7mks)

(b) State **seven** reasons why kinship systems are important in traditional African society.

(7mks)

(c) Identify ways in which introduction of money economy has changed the African traditional

understanding of bride wealth.

(6mks)

**313/2**

**C.R.E**

**Paper 2**

**Time: 2<sup>1</sup>/<sub>2</sub> Hours**

## **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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# FORM 3

## *Kenya Certificate of Secondary Education (K.C.S.E)*

### INSTRUCTIONS TO CANDIDATES

- Attempt **any five** questions in the answer booklet provided

**Answer any five questions from this paper in the answer booklet provided**

1. (a) How did John the Baptist act as a link between the old and the new Testament.

(6mks)

(b) Identify at least **eight** events that took place during the birth of John the Baptist (Lk1:57 - 66)

(8mks)

(c) State **six** ways in which in which a Christian couple should respond to childlessness (6mks)

2. (a) Describe the call of the first disciples of Jesus

(7mks)

(b) Give **seven** reasons why Jesus referred to the Pharisees as hypocrites

(7mks)

(c) How do Christian leaders misuse their positions today

(6mks)

3. (a) Describe the healing of the blind beggar near Jericho (Lk 18: 35 - 43)  
(7mks)
- (b) Using **five** reasons state why Peter denied Jesus (5mks)
- (c) Explain **four** importance of the resurrection of Jesus Christ to Christian life  
(8mks)
4. (a) Give **four** teachings on the gifts of the holy spirit. (6mks)
- (b) Identify **four** ways a Christian can use to discern the gifts of the Holy Spirit.  
(8mks)
- (c) State **six** roles of the Holy Spirit in the church today. (6mks)
5. (a) Identify disadvantages of over – indulging in leisure activities.  
(6mks)
- (b) Give **seven** consequences of irresponsible parenthood.  
(7mks)
- (c) State **seven** factors that a Christian should consider when choosing a career.  
(7mks)
6. (a) Discuss at least **seven** traditional African practices that promote law, order and justice.  
(7mks)

(b) Explain how sexism is manifested in society today

(6mks)

(c) How is euthanasia not acceptable to Christians

(7mks)

**443/1**

**AGRICULTURE**

**PAPER ONE**

**2 ½ HOURS**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTION TO CANDIDATES**

- ❖ *Write your name and index number in the spaces provided above*
- ❖ *Sign and write the date of examination in the space provided*
- ❖ *This paper consists of **THREE** section **A, B, and C***
- ❖ *Answer **ALL** questions in section **A and B***

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

**Page 197 of 293**

- ❖ Answer any **TWO** question in section **C**
- ❖ **ALL** the questions should be answered in the space provided
- ❖ Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

| <b>Section</b> | <b>Question</b> | <b>Maximum score</b> | <b>Candidate score</b> |
|----------------|-----------------|----------------------|------------------------|
| <b>A</b>       | <b>1-16</b>     | <b>30</b>            |                        |
| <b>B</b>       | <b>17-20</b>    | <b>20</b>            |                        |
| <b>C</b>       |                 | <b>20</b>            |                        |
|                |                 | <b>20</b>            |                        |
|                | <b>TOTAL</b>    | <b>90</b>            |                        |

**SECTION A (30 Marks)**

**Answer all the questions from this section.**

1. Name **three** forms of horticulture farming.

(1½ marks)

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2. a) Give **four** conditions which are necessary for a successful grafting.

(2 marks)

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b) Name **four** crops which require earthing up.

(2 marks)

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3. State **four** features of plastic pipes.

(2 marks)

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4. State **three** functions of plastic materials when used as mulching material.

(1 ½ marks)

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5. Mention **three** causes of hard pans.

(1 ½ marks)

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6. Explain each of following:

(3 marks)

a) Fine tilth is not encouraged in sloppy land

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b) Farmers are advised to dig deeply in a piece of land with rhizomatous weeds.

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c) Irish potatoes are raised on ridges rather than on leveled land.

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7. State **three** functions of plastic materials when used as mulch in crop production.

(1 ½ marks)

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8. State any **three** aims of land settlement program in Kenya.

(1 ½ marks)

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9. Give **four** factors which to consider when selecting a mother plant for stem cutting.  
(1 ½ marks)

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10. State **four** advantages of applying lime as a measure of improving soil condition.  
(2 marks)

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11. State **three** methods of increasing light intensity in crop production.  
(1 ½ marks)

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12. a) State **four** practices which encourage soil erosion.  
( 2 marks)

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(b) Name **two** forms of gulley erosion.

**(1mark)**

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13. State **two** ways through which tillage controls pests.

**(1 mark)**

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14. Give **three** methods of water harvesting .

**(1 ½ marks)**

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15. State **four** disadvantages of communal land tenure system.

**(2 marks)**

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16. Differentiate the terms afforestation and deforestation.

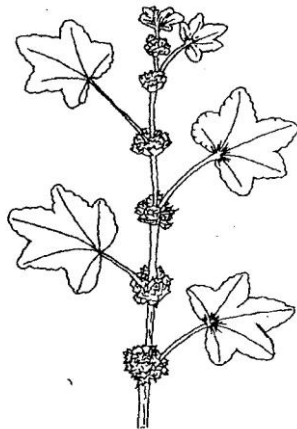
(1mark)

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**SECTION B (20 MARKS)**

**Answer ALL the questions in this section in the spaces provided**

17. Below is a diagram of a Common East African Weed.



a) Identify the weed illustrated above.

(1 mark)

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.....

b) Give **one** harmful effect of the weed illustrated above to livestock.

(1 mark)

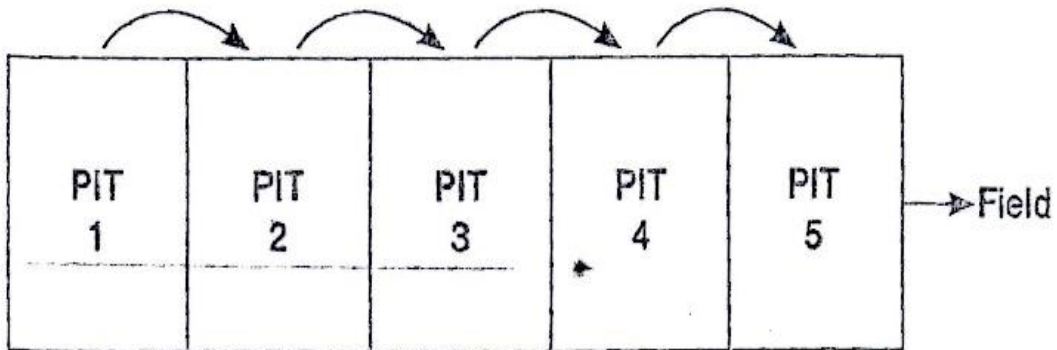
.....  
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c) State **two** methods of controlling the weed illustrated above.

(2 marks)

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18. The following diagram shows a method of compost preparation



a) Identify the method.

(1 mark)

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.....

b) Give **four** factors that should be considered when siting the compost pit.

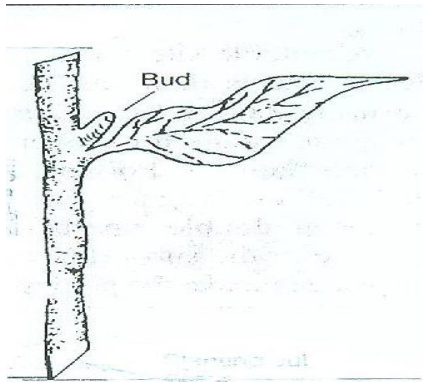
(2 marks)

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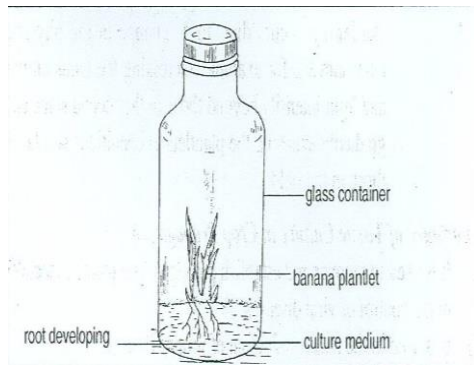
c) State **two** factors that determine the time the manure would be ready for use in the field.  
**(2 marks)**

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19. The diagram shown below as M and Nare diagrams of different planting materials.



C



D

a) Identify the diagrams C and D above.  
**(2 marks)**

C-

D

b) Reason why the middle part of C is suitable for propagation unlike top and the bottom.  
**(1 mark)**

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c) State **four** factors which influence the rooting of material C.

**(2 marks)**

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d) Give **three** advantages using D as planting materials.

**(3 marks)**

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20. Mr.Mutembei is preparing to grow a crop of maize on a two hectare plot and maize requires 40 kg  $P_2O_5$ . If the fertilizer available in the area is single super phosphate 20%  $P_2O_5$  calculate how many Kilograms of fertilizer should Mr. Mutembei buy for his crop of maize. ( show your working)

**(3 marks)**

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**SECTIONC (40 marks)**

**Answer two questions from this section.**

21. a) State and explain five biotic factors that influence agricultural production.

**(10 marks )**

b) Describe **ten influences** of soil structure on crop production. **(10 marks)**

22. a) Describe **five** effects of soil erosion  
**(5 marks)**

b) Describe **five** physical methods of erosion control **(5 marks)**

c) State and explain **five** human factors influencing agriculture. **(10 marks)**

23. a) Describe the production of cabbages under the following sub headings: -

i) Seedbed preparation  
**(5 marks)**

ii) Transplanting  
**(5 marks)**

iii) Field practices  
**(5 marks)**

b) Explain **ten** farming practices which help to conserve soil in a farm. **(10 marks)**

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443/2

**AGRICULTURE**

**PAPER TWO**

**2 HOURS**

**SET 5**  
**FORM 3**

**INSTRUCTION TO CANDIDATES**

**FOR MORE MATERIALS CONTACT CHAMPIONS' K.C.S.E REVISION ON 0725 733 640**

**Page 207 of 293**

- ❖ Write your Name and index number in the spaces provided above
- ❖ Sign and write the date of the date of the examination in the spaces provided above
- ❖ This paper consists of **THREE** section A,B and C
- ❖ Answer **ALL** questions in sections A and B and any **TWO** questions in section C
- ❖ Write your answers in spaces provided

**FOR EXAMINERS USE ONLY**

| SECTION            | QUESTIONS | MAXIMUM SCORE | CANDIDATE SCORE |
|--------------------|-----------|---------------|-----------------|
| A                  | 1-20      | 30            |                 |
| B                  | 21-26     | 20            |                 |
| C                  |           | 20            |                 |
|                    |           | 20            |                 |
| <b>TOTAL SCORE</b> |           | <b>90</b>     |                 |

**SECTION A ( 30 MARKS)**

**Answer all the questions from this section.**

1. State the functional difference between a tenon saw and a rip saw.  
(1 mark)

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2. State **four** factors that determine the nutritional requirements of an animal.  
(2 marks)



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3. State **four** methods of dehorning in livestock.  
(2 marks)

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4. List **three** precautions taken when seasoning timber by air for construction.  
(1 ½ marks)

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5. State **two** desirable qualities of a livestock ration.  
( 2 marks)

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6. State **four** importance of creep feeding in piglets.

**(2 marks)**

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7. Define the term hybrid vigor as used in livestock production.

**(1 mark)**

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8. State **four** benefits of using a subsoiler during seedbed preparation.

**(2 marks)**

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9. How each of the following practices controls livestock disease.

( 1 mark)

a) Quarantine

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b) Prophylaxis

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.....

10. Factors that enable ruminants to break down fibrous feed material.

(1 mark)

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11. State **three** uses of green houses on the farm.

(1½ marks)

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**12.** Name **three** types of hives use in bee farming.  
(1 ½ marks)

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**13.** Give **three** disadvantages of inbreeding in cattle.  
(1 ½ marks)

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**14.** Give **four** characteristics of a good calf pen  
(2 marks)

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**15. Name three reasons for debeaking birds in poultry management**  
**(1 ½ marks)**

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**16. State four advantages of using corrugated.**  
**(2 marks)**

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**17. Differentiate the terms prolificacy and mothering ability.**  
**(1 mark)**

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**18. State three signs of heat in a rabbit.**

**(1½ marks)**

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**19. Give the functions of the following parts of a chicken’s digestive system.**

**(1 mark)**

Crop-

Proventriculus

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Gizzard-

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20. Name the part of digestive system of a rabbit that enables it to digest vegetative feed.

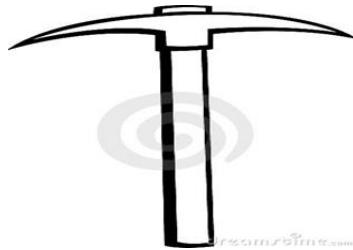
(1 mark)

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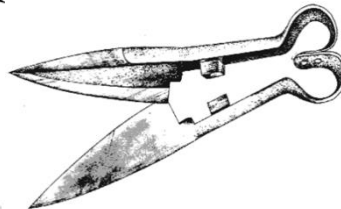
**SECTION B (20MKS)**

**Answer ALL questions in this section in the spaces provided.**

21. The diagrams below represent farm tools. Study them and answer the questions which follow.



J



H

a) Identify tool J and H

(1 mark )

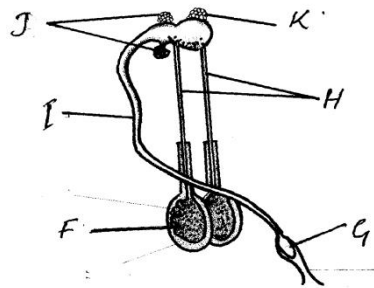
.....  
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b) Give **one** of the use of tool J and H above.  
**(1 mark)**

.....  
 .....  
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22. The illustration below shows a male reproductive system in cattle. Study it and answer the questions

that follow.



a) Identify the parts labeled **I, J, K** and **G**.  
**(2 marks)**

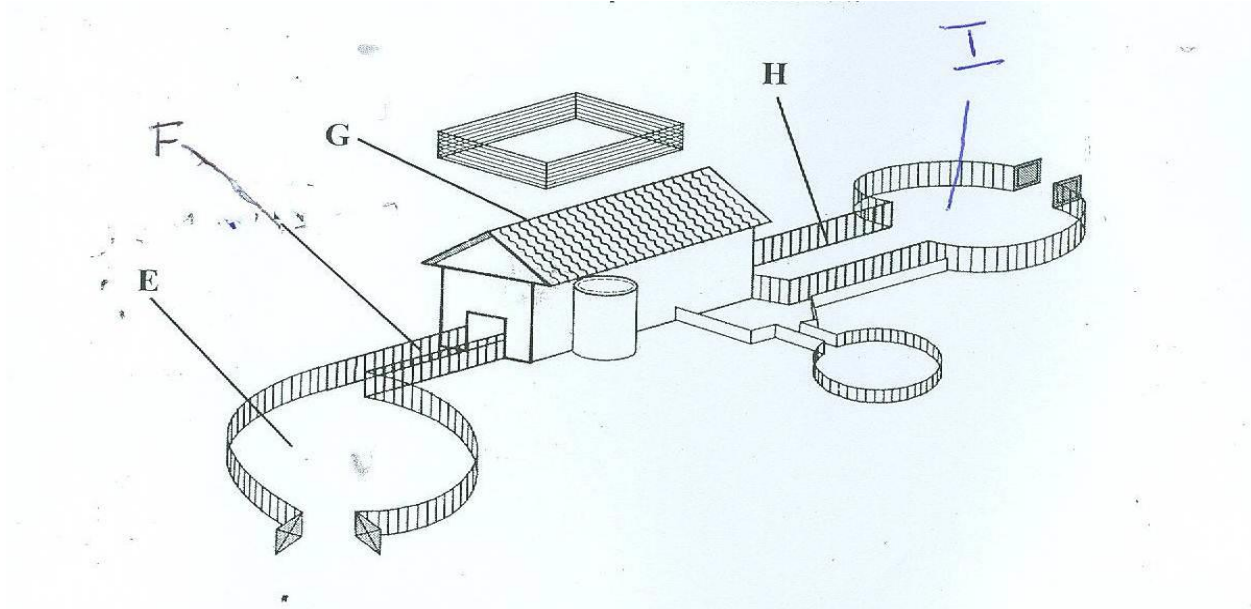
**I**.....  
**J**.....  
**K**.....  
**G**.....

b) Give **one** function for each of the parts labeled **F** and **H**.  
**(1 mark)**

**F**.....  
**H**.....



23. The diagram below illustrates a livestock handling structure. Study the diagram carefully and answer the questions that follow.



a) State the parts labeled as E and F.

(1 mark)

.....  
 .....  
 .....

b) Give **two** functions of the part labeled G.

(1 mark)

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 .....  
 .....

c) State two functions of the part labeled F and state how it is equipped for its function.

(1 mark)

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.....

d) State the functions of the parts H and I.

(1 mark )

H-

I-

24. The diagram below represents a sheep breed. Study carefully and answer the questions that follow.



a) Identify the breed of sheep shown above.

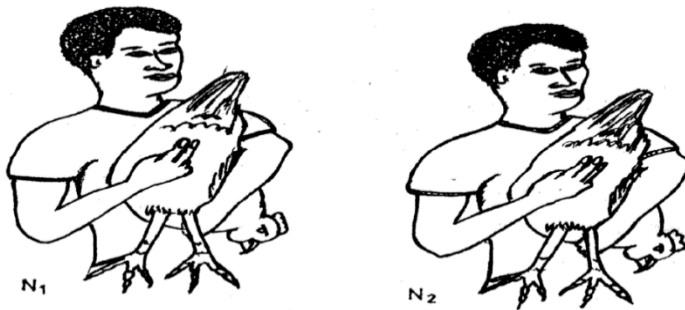
(1 mark)

.....  
.....

b) State the purpose of the breed named in ( a) above  
(1 mark)

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.....

25. Diagrams N1 and N2 below show the fingers fitted between pelvic bones as a practice used in examining layers during culling.



a) i) Which layer would be culled  
(1 mark)

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.....  
.....

ii) Give **two** other characteristics that can be examined when culling.  
(1 mark)

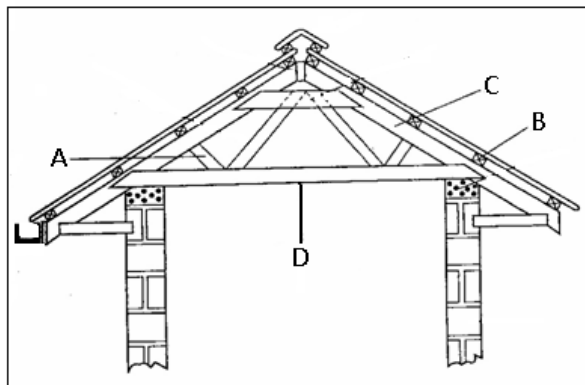
.....  
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b) Other than using the characteristics of a layer, give another method that can be used to cull layer

(1 mark)

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.....  
.....

26. a) The diagram below represents roof of a building.



a) Identify the parts labeled A, B, C and D

(2 marks)

A

B

C

D

b) Give **four** factors considered when sitting farm buildings and structures.  
(2 marks)

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c) Explain **four** factors which would be considered in choosing materials for construction of farm building and structures.  
(2 marks)

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**SECTION C (40 Marks)**

**Answer any two questions from this section.**

27. a) Describe the procedure of wool shearing in sheep. (10 marks)

b) Explain the management of piglets from birth to weaning. (10 marks)

28. Give ten routine practices and explain an appropriate method of handling livestock during the routine

Practice. (20 marks)

29. a) Describe the procedure of harvesting honey. (5 marks)

b) Explain the function of any five parts of a zero grazing unit in dairy farming. (10 marks)

c) Procedure followed when constructing a barbed wire fence. (5 marks)

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NAME .....

DATE

INDEX NO. ....

CANDIDATE'S SIGNATURE

565/1

**BUSINESS STUDIES**

**PAPER 1**

**TIME: 2 HOURS**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

# **SET 5**

## **FORM 3**

### **INSTRUCTIONS TO CANDIDATES**

Answer all the questions in spaces provided.

### **FOR EXAMINERS USE ONLY**

|                  |          |          |          |          |          |          |          |          |          |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>QUESTIONS</b> | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> |
| <b>MARKS</b>     |          |          |          |          |          |          |          |          |          |

|           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> |
|           |           |           |           |           |           |           |           |           |

|           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>19</b> | <b>20</b> | <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

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TOTAL MARKS

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*This paper consists of 6 printed pages.  
Candidates should check to ensure that all pages are printed as indicated and no  
questions are missing*



1. State four factors that constitute the internal environment of a business.

(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

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.....

(c)

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.....

2. Outline two differences between a bonded warehouse and a private warehouse.

(4marks)

(a)

.....  
.....

.....  
.....

(b)

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.....

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.....

3. Outline four after-sale services that a trader can offer to his customers.

(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

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(c)

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4. State the three types of economic resources, giving an example in each case.

(4marks)

| <u>Economic resource</u> | <u>Example</u> |
|--------------------------|----------------|
|                          |                |

|  |  |
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5. State four characteristics of land as a factor of production.

(4marks)

(a)

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.....

(b)

.....  
.....

(c)

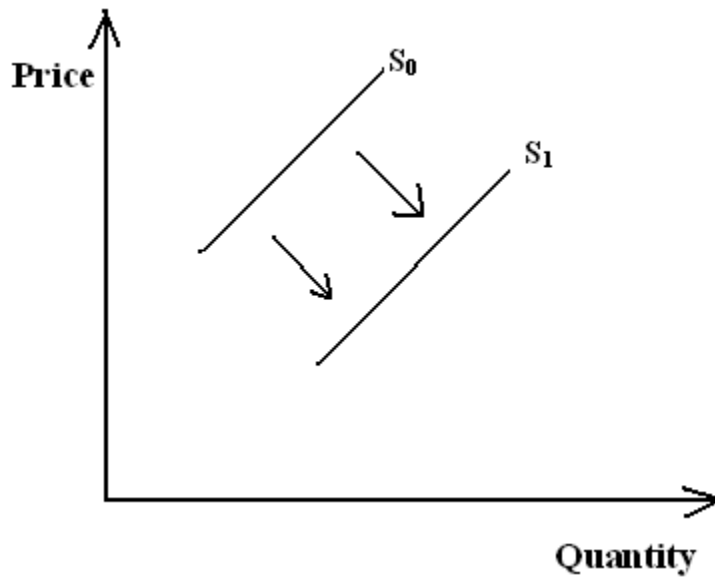
.....  
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(c)

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.....

6. The following diagram shows a shift in supply curves from  $S_0$  to  $S_1$ . State four factors that would have caused the shift.

(4marks)



(a)

.....  
 .....

(b)

.....  
 .....

(c)

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 .....

(c)

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 .....

7. State four positive effects of globalization on business today.  
 (4marks)

(a)

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(b)

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(c)

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(c)

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8. Outline four conditions which must be met in order for an insurance contract to be valid.

(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

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.....

(c)

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.....

9. Outline four limitation of the circular flow of income.

(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

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.....

(c)

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.....

10. Outline four ways in which consumers benefit when producers compete in product promotion.(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

.....  
.....

(c)

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.....

11. State the unit of carriage for each of the following modes of transport.

(4marks)

| <u>Mode of transport</u> | <u>Unit of carriage</u> |
|--------------------------|-------------------------|
| (a) Portage              | .....                   |
| (b) Sea                  | .....                   |
| (c) Road                 | .....                   |
| (d) Air                  | .....                   |

12. Outline four characteristics of human wants.

(4marks)

(a)

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.....

(b)

.....  
.....

(c)

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(c)

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.....

13. State four ways through which the government may create an enabling environment for business in the country.

(4marks)

(a)

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.....

(b)

.....  
.....

(c)

.....  
.....

(c)

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.....

14. State four reasons why modern government offices have adopted the open plan office layout as opposed to the enclosed plan layout.

(4marks)

(a)

.....  
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(b)

.....  
.....

(c)

.....  
.....

(c)

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.....

15. Give four circumstances under which a business would sell through CWO (cash with order) basis.

(  
4m  
ark  
s)

(a)

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(b)

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(c)

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(d)

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.....

16. Outline four negative effects of HIV on business activities.

(4marks)

(a)

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(b)

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(c)

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(c)

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17. State four reasons why a government would regulate business.

(4marks)

(a)

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(b)

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(c)

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(c)

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18. Outline four circumstances under which John a trader would have to transport his wares by air.(4marks)

(a)

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(b)

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.....

(c)

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(c)

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19. State four limitations of using mobile phones as a means of communication.  
(4marks)

(a)

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(b)

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(c)

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(c)

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20. Outline four circumstances under which an insurance may fail to indemnify the insured.

(4marks)

(a)

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(b)

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(c)

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(c)

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21. Other than price mechanism, state four other methods of determining the price of a commodity.(4marks)

(a)

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(b)

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.....

(c)

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(c)

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.....

22. State four assumptions governing the existence of perfect competition market.  
(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

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.....

(c)

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23. Outline four circumstances under which a producer would opt to sell his goods directly to the consumer.

(4marks)

(a)

.....  
.....

(b)

.....  
.....

(c)

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(c)

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24. State four uses of national income statistics.

(4marks)

(a)

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(b)

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(c)

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(c)

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25. State four positive implications of a high population to an economy.

(4marks)

(a)

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(b)

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(c)

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(c)

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NAME ..... DATE  
.....

ADM NO. .... CANDIDATE'S SIGNATURE  
.....

565/2

BUSINESS STUDIES

PAPER 2

TIME: 2 ½ HOURS

**SET 5**

**FORM 3**

*Kenya Certificate of Secondary Education*

565/2

BUSINESS STUDIES

PAPER 2

TIME: 2 ½ HOURS

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640  
Page 240 of 293**



**INSTRUCTIONS TO THE CANDIDATES**

Answer any **FIVE** questions

All questions carry equal marks

All working must be shown

*This paper consists of 3 printed pages.*

*Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

1. (a) State and explain five reasons for the continued existence of small scale firms in the economy despite

the huge benefits associated with large production.

(10marks)

(b) Explain five circumstances under which a producer would need the services of intermediaries.

(10marks)

2. a) Explain **five** indicators of under development in Kenya.

(10mks)

(b) Most African countries experience low levels of national income. State and explain five factors that

may be contributing to this scenario.

(10marks)

3. (a) State and explain five sources of monopoly power.

(10marks)

(b) State and explain five unethical issues that may be witnessed in product promotion.

(10marks)

4.(a) Give five differences between a public limited company and a public corporation.  
(10marks)

(b) State and explain five factors that an organization would have to consider before a decision is made to acquire a certain office equipment.  
(10marks)

5. (a) Explain five reasons why Kenya has been unable to adequately exploit her natural resources.

(10marks)

(b) State and explain five circumstances under which a trader would use human portorage to ferry his

goods.

(10marks)

6. (a) The following balances were extracted from the books of Musau traders as at 30.06.2013

|                        |         |
|------------------------|---------|
| Building               | 870,000 |
| Debtors                | 36,520  |
| Capital                | 947,000 |
| Cash                   | 74,000  |
| Creditors              | 45,300  |
| Stock                  | 14,250  |
| Bank overdraft         | 18,500  |
| Cash at bank           | 16,000  |
| Furniture and fittings | 2,500   |
| Drawings               | 6,000   |

Additional investments            4,000

Required;

(i) Prepare Musau traders trial balance as at 30.06.2013.

(5marks)

(ii) Musau traders balance sheet as at 30.06.2013.

(5marks)

(b) Explain five circumstances under which face to face communication may be ineffective.

(10marks)

NAME..... INDEX

NO.....

SCHOOL..... CANDIDATE'S

SIGNATURE.....

DATE .....

451/1

COMPUTER STUDIES

PAPER 1 (THEORY)

TIME: 2 ½ HOURS

## *SET 3*

Kenya Certificate of Secondary Education (K.C.S.E)

### INSTRUCTIONS TO CANDIDATES

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

**Page 245 of 293**

- This paper consists of TWO sections A and B
- Answer all questions in section **A**.
- Answer question 16 (Compulsory) and any other **THREE** questions in section **B**.
- All answers should be written in the spaces provided in the question paper

**FOR EXAMINER’S USE ONLY.**

| Section            | Question | Max score | Candidates Score |
|--------------------|----------|-----------|------------------|
| A                  | 1 – 15   | 40        |                  |
| B                  | 16       | 15        |                  |
|                    | 17       | 15        |                  |
|                    | 18       | 15        |                  |
|                    | 19       | 15        |                  |
|                    | 20       | 15        |                  |
| <b>Total Score</b> |          |           |                  |

This paper consists of 8 Printed pages, candidates should check the question paper to ensure that all the papers are printed as indicated and no questions are missing

**SECTION A – 40 MARKS**

**Answer all questions in the section**

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640  
Page 246 of 293**

1. State three classifications of microcomputers when classified according to the size.

(3 marks)

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2. List down four features of user friendly program.

(2 marks)

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3. (a) Explain why an impact printer is suitable for printing of multiple copies.

(2 marks)

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(b) State two advantages of a laser printer over inkjet printers.

(2 marks)

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4. Distinguish between DRAM and SRAM memories.

(2 marks)

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5. (a) State and explain one type of computer processing file.

(2 marks)

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(b) List three file organisation methods.

( 3 marks)

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6. State two ways in which your school librarian can use a computer.

(2 marks)

7. Explain what the following DOS commands achieve when executed.

(i) C:\ DIR P \*.EXE

(1mark)

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.....

(ii) A:\> FORMAT

(1 mark)

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8. State three ways in which computer users can minimize repetitive strain injury (RSI)  
(3 marks)

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9. (a) Name any two types of non-printable guides in DTP.  
(1mark)

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(b) Explain the functions of each of non-printable guides named in 9 (a) above.  
(2 marks)

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10. Mr. Musyoka computer technician in one of the schools used speech method to store students' oral answers into a computer.

(a) What is a speech input?  
(1 mark)

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(b) State two advantages and one disadvantage of using this kind of input.  
(3 marks)

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11. Explain the following computer mouse terminologies.

(2 marks)

(a) Clicking

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(c) Double clicking

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12. (a) What is an analogue device?

(1 mark)

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(b) Give two examples of analogue computers.

(1mark)

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13. (a) What is a deadlock?

(1mark)

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.....  
(b) Differentiate between a program file and a data file.

(1mark)

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14. Give two reasons for partitioning a disk.

( 2 marks)

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15. Draw a diagram to illustrate the following.

(i) USB port

(1mark)

(ii) Serial port

(1mark)

**SECTION B – 60 MARKS)**

**Answer question 16 and any other three questions from this section in the spaces provided**

16. Pangani School is an organization and its pays its employees according to the following information

below.

Each employee has a basic pay, Taxation is carried out as follows:

Basic pay equal to or less than KSh. 5000 tax rate is 10%

Basic pay between KSh. 5000 and KSh. 7000 the tax rate is 20%

Any basic pay equal to or over KSh. 7000 attracts a tax of 40%

Each employee must contribute 5% of basic income to the Pension Scheme payments are done monthly

(a) Using a flow chart diagram, design a program that would read an employee name, basic salary; the program should also display each employee’s basic salary, net salary and total deductions.  
(10 marks)

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(b) Using the above diagram, write a pseudo code that should prompt the user to input the employee name, basic pay and compute the employee net salary.

(5 marks)

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17. (a) Carry out the following arithmetic in twos complements.

(4 marks)

(i)  $48_{10} - 14_{10}$

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(ii) Convert  $0.375_{10}$  into binary form.

(2 marks)

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(iii) Perform the following arithmetic in binary notation  $1011000011_2 + 111_2$

.....  
.....

(iv) Using the ones complement, calculate  $31_{10} - 17_{10}$  in binary form

(4 marks)

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(b) Explain the meaning of the following terminologies as used in data security and control.

(3 marks)

(i) Fire wall

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.....  
(ii) Log file

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.....  
(iii) Encryption

(c) A head teacher keeps the following details in a database.

Name, Address, Town, Date of Birth, Marks scored, Fees paid, Student ID.

Name the most appropriate primary key for the above record. Give a reason.

(1mark)

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18. (a) Differentiate between a formula and a function as used in Excel.

(2 marks)

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(b) What is the effect of the following function?

COUNTIF (A5:D5, "orange")

(2 marks)

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- .....
- .....
- (c) The first column in the table below contains the formula stored in a cell of a spreadsheet.  
Enter the formula as they would appear when copied to cell F15 of the same spreadsheet.  
(3 marks)

| FORMULA IN C10 | FORMULA IN F15 |
|----------------|----------------|
| = A56 * B5     |                |
| = A & 5        |                |
| = 4 * B \$ 6   |                |

- (d) (i) Explain the concept of distributed databases.  
(2marks)

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- (ii) State **two** advantages of distributed databases.  
(2 marks)

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- (e) Outline **two** uses of forms in databases design  
(2 marks)

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.....  
(f) List any two spreadsheet programs

(2 marks)

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(g) (a) Give provisions in Kenya laws governing and protecting our information.

(3 marks)

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(b) Identify and explain three security threats on ICT

(3 marks)

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(c) List three features of electronic mail.

(3 marks)

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(d) Outline three short comings of the internet.

(3 marks)

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(e) List three internet connectivity requirements.

( 3 marks)

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20. (a) Name two ways by which operating systems are classified.

( 2 marks)

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(b) Distinguish between (i) formatting a disk and partitioning a disk.

( 2 marks)

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(i) File and a folder

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(ii) System file and application file

(2 marks)

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(c) List down four functions of an operating system.

(4 marks)

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(d) Outline two factors you would consider if you were to buy an operating system.

(2 marks)

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(e) Why must an operating system be installed in the computer before installing other software?  
(1 mark)

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**PRACTICAL**  
**TIME: 2 ½ Hours**

## **SET 3**

Instructions to candidates

- Write your name and Adm. No. on the printouts.
- Write the version of the software used for each question.
- Create a folder on folder C and give it your name.
- Passwords should be used while saving your work.
- Answer ALL questions.
- All answer MUST be saved in the folder.
- Make a printout of answer on the answer sheets provided.

1. Makueni County has shortlisted candidates for various positions in that county.  
Use a word processor, type the document as it appears and save it as Makueni main.  
(18 mks)

Makueni County

Tel:  
022466646  
E-mail:  
[Makueni@yahoo.com](mailto:Makueni@yahoo.com)

P.O. Box 636,  
Makueni

Tuesday 11, April 2013  
<<Second Name>> <<First name>>  
P.O. Box <<Address>>  
<<Town>>

Dear <<Tittle>> First Name>>

**RE: INVITATION FOR AN INTERVIEW**

Following your application for the <<position>>, I am glad to inform you that you have been shortlisted.

You will be Required to Report for the interview <<address>> at <<time>>. You are required to bring the following documents.

- i. Identity card.
- ii. Original certificate.
- iii. Two passport size
- iv. A reference letter

We are looking forward to seeing you.

Yours faithfully,

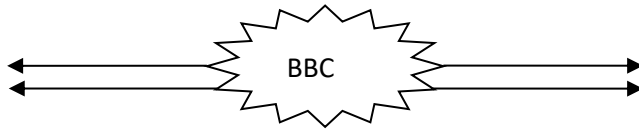
Sarah Mueni  
Secretary of County

B. Insert the following as Header : Makueni County.

(2 mks)

C. Create a logo in figure 1 and position it below the statement Makueni County.

(4 mks)



(d) Create a data source to store information

| Tittle | Second name | First name | Town    | Position      | Date                | Time      |
|--------|-------------|------------|---------|---------------|---------------------|-----------|
| Prof.  | Jilo        | Falana     | Tamu    | Accountant    | 6 <sup>th</sup> Dec | 11.30 a.m |
| Mr.    | Kamau       | Paul       | Nyeri   | A lawyer      | 7 <sup>th</sup> Dec | 11.30 a.m |
| Miss   | Anyango     | Wafula     | Kisumu  | ICT Assistant | 6 <sup>th</sup> Dec | 2.30 a.m  |
| Mrs    | Susan       | Chemutai   | Eldoret | Accountant    | 7 <sup>th</sup> Dec | 12.00     |
| Mrs    | George      | Olwe       | Kilungu | Accountant    | 4 <sup>th</sup> Dec | 11.00 a.m |
| Miss   | Stella      | Muute      | Kisumu  | ICT Assistant | 3 <sup>rd</sup> Dec | 11.00     |

(e) Use mail-merge feature, merge letter Makueni and the last files and save it as Major.

(4 mks)

(f) Insert page number on top of each of the merged document.

(4 mks)

2. A company ZBQ sells products P,Q and R. Figure 3 shows an extract of a spreadsheet for the company

sales person and their respective sales in KSh for each product.

| No. | Sales person | Product P | Product Q | Product R | Total sales | Point | Categ | T.P |
|-----|--------------|-----------|-----------|-----------|-------------|-------|-------|-----|
| 1   | George       | 6000      | 4664      | 7500      |             |       |       |     |
| 2   | Jane         | 6466      | 1000      | 1600      |             |       |       |     |

|    |          |      |       |       |  |  |  |  |
|----|----------|------|-------|-------|--|--|--|--|
| 3  | Paul     | 7500 | 8000  | 11000 |  |  |  |  |
| 4  | Kipkorir | 4000 | 6700  | 4000  |  |  |  |  |
| 5  | Anyango  | 3000 | 4640  | 3000  |  |  |  |  |
| 6  | Nekesa   | 4000 | 5460  | 2300  |  |  |  |  |
| 7  | Kinuthia | 6140 | 9600  | 11600 |  |  |  |  |
| 8  | Gabriel  | 2500 | 8900  | 3200  |  |  |  |  |
| 9  | Sonko    | 3600 | 10000 | 5000  |  |  |  |  |
| 10 | Wamalwa  | 2700 | 2300  | 3000  |  |  |  |  |

Figure 3

(a) (i) Using a spreadsheet package, Enter the above information and save it as Kilungu – Table.

(9 mks)

(ii) Format the worksheet to appear as it is.

(4 mks)

(b) (i) Type a formula.

(i) At cell B9 compute the total sales for product P.

(1 mk)

(ii) At cell E2 to compute total for Paul.

( 1 mk)

(c) A sales person earns points for the sales of each product based on the following criteria.

(i) 1 point for every Sh. 50 for product P.

(ii) 2 points for every Sh. 66 for product Q.

(iii) 3 points for every Sh. 40 for product R.

(a) Type a formulae in cells F2 to compute the total points earned by Thomas.

(3 mks)

(b) Apply the formula in (c) (i) to the rest of the sales persons.

(d) A sales person is categorized based on points earned as follows.

| Point range | Category |
|-------------|----------|
| Over 1300   | Gold     |
| 1101 – 1300 | Silver   |
| Upto 1100   | Bronze   |



Those sales persons attaining a Gold category earns promotion.

- (i) Type a formula in G4 to determine Kipkorir. (5 mks)
- (ii) Apply the formula in (d) (i) to other cells. (1 mk)
- (iii) Type a formula at G10 to determine the No. of sales persons. (4 mks)
- (e) Each sales persons earns a total of 20,000 plus 2% of their total sales. (2 mks)
- (f) Create a line chart showing all products for each sales person. Inset labels on the chart. (9 mks)
- (g) Rename the worksheet as SalesData and chart sheet as sales charts. (2 mks)
- (h) Print the following (3 mks)
- (a) Sales data
  - (b) Sales data showing the formulae.
  - (c) Sales chart

**441/1**

**HOME SCIENCE**

**Paper 1 (Theory)**

**Time: 2½ Hours**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

**INSTRUCTIONS TO THE CANDIDATES**

Write your name and index number in the spaces provided above.

This paper consists of **THREE** sections A, B, and C.

Answer **ALL** the questions in section A and B

Answer any **TWO** questions from section C

This paper consists of 8 printed pages.

Candidates should check to ensure that all pages are printed as indicated and no questions are missing

**For examiners use only**

| <b>Section</b> | <b>Questions</b>   | <b>Maximum score</b>   | <b>Candidates score</b> |
|----------------|--------------------|------------------------|-------------------------|
| <b>A</b>       | <b>1- 15</b>       | <b>40</b>              |                         |
| <b>B</b>       | <b>16</b>          | <b>20</b>              |                         |
| <b>C</b>       |                    | <b>20</b><br><b>20</b> |                         |
|                | <b>TOTAL SCORE</b> | <b>100</b>             |                         |

**SECTION A – 40 MARKS**

**Answer all questions in the space provided**

1. Outline two importances of care labels on garments.

(2 marks)

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2. State two factors to consider when choosing a method of neatening a seam.

(2 marks)

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3. Differentiate between cuts and bruises.

(2 marks)

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4. State the effect of the following on nutrients in foods.

(a) Prolonged cooking at high temperatures.

(1 mark)

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(b) Shredding and slicing of vegetables during preparation.

(1mark)

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(c) Moist methods of cooking.

(1 mark)

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5. Mention two reasons for early cessation of breastfeeding.

(2 marks)

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6. Mention three sources of information for the consumer.

(3 marks)

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7. Outline three points on the care of a microwave oven.

(3 marks)

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8. Identify three functions of vitamin B1 in the diet.

(3 marks)

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9. Give three laundry processes that are harmful to woolen fabrics and in each case state the harm caused.

(3 marks)

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10. While using grease solvents one should be careful. Mention two precautionary measures to take.

(2 marks)

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11. What is the function of each of the following parts of a sewing machine.

(i) Spool pin

(1 mark)

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(ii) Feed dog

(1 mark)

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(iii) Tension disc

(1 mark)

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12. Highlight two precautions to take on a limb after a snake bite.

(2 marks)

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13. Name any three methods used for transferring pattern markings.

(3 marks)

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14. State two uses of mineral fibres in clothing.

(2 marks)

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15. State three disadvantages of steaming as a method of cooking.

(3 marks)

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**SECTION B – 20 MARKS)**

**COMPULSORY**

**Answer question 16 in the spaces provided.**

16. You have been assigned by your aunt to assist in carrying out some household chores.

(a) Giving reasons, explain how you would launder a loose coloured cotton shirt.

(8marks)

(b) Describe how you would clean a plain wooden table top.

(7marks)

(c) Outline the procedure you would use to clean a greasy glass mug.

(5 marks)

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**SECTION C – 40 MARKS**



**Answer any two questions in this section**

17. (a) Describe five precautions to observe when handling yeast mixtures.

(10 marks)

(b) Explain the role of play in child development under the following sub-headings.

(i) Physical development.

(2marks)

(ii) Social development

(2 marks)

(iii) Mental development

(2marks)

(c) Give four reasons why disposal of sewage in rivers and streams is prohibited.

(4 marks)

18. (a) With aid of two labelled diagrams explain the working of a box pleat.

(6 marks)

(b) Outline four points to observe when choosing basins for laundry work.

(4 marks)

(c) Explain five reasons for cleaning a house.

(10 marks)

19. (a) Discuss five factors that contribute to safe parenthood.

(10 marks)

(b) Draw a flow chart to illustrate the classification of man-made fibres.

(7 marks)

(c) Name three important body measurements which must be taken when making a skirt.

(3 marks)

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**441/2**

**HOMESCIENCE (CLOTHING AND TEXTILES)**

**PAPER 2**

**PRACTICAL**

**TIME: 2½ HOURS**

# **F3 SET 3 CHAMPIONS HOLIDAY EXAMS 2020 FORM 3**

A pattern of a girl's skirt is provided. You are advised to study the sketches, the question paper and layout carefully before you begin the test.

## **MATERIALS PROVIDED**

1. Pattern pieces
  - A Skirt front
  - B Skirt back
  - C Pocket
  - D Front yoke
2. Light weight cotton fabric 50cm by 90cm wide.
3. Sewing thread to match the fabric.
4. One large envelop.

## **THE TEST**

Using the materials provided, cut out and make up the RIGHT HALF of the skirt to show the following processes:

**FOR MORE MATERIALS CONTACT CHAMPIONS K.C.S.E REVISION ON 0725 733 640**

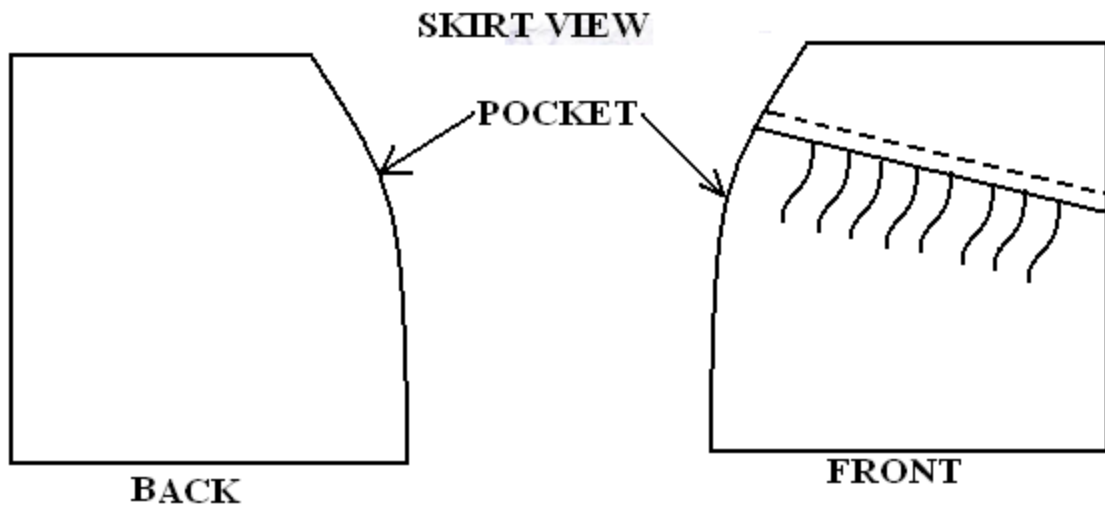
**Page 274 of 293**

- (a) The making of the back dart.
- (b) The preparation of the gathers on the skirt front piece.
- (c) Attachment of yoke piece to the skirt front piece using a neatened overlaid seam.
- (d) Attachment of front pocket piece to the skirt front and back pocket piece to the skirt back. Do not trim or neaten the seam.
- (e) The making of a neatened open seam at the side above and below the pocket mouth.
- (f) The joining of the pocket bag seam (do not neaten)
- (g) The preparation of the skirt hem and slip hemming it.

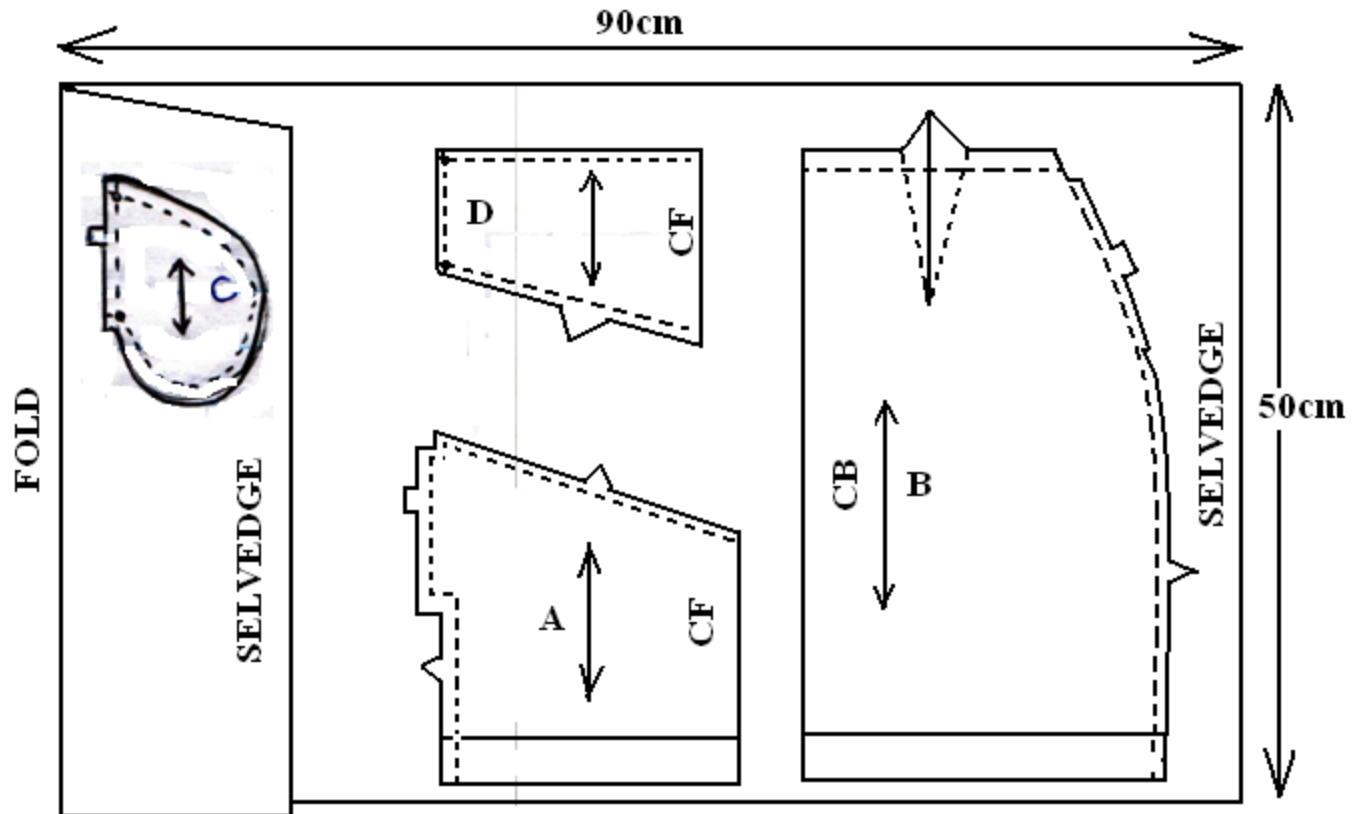
At the end of the examination, firmly sew onto your work, on a single fabric a label bearing your name and index number.

Remove the needle and pins from your work, then fold your work carefully and place it in the envelope provided.

Do not put scraps of fabric in the envelope.



**THE LAYOUT (NOT DRAWN TO SCALE)**



**441/3**

**HOME SCIENCE (FOODS AND NUTRITION)**

**Paper 3**

**Practical**

**Time: 1<sup>3</sup>/<sub>4</sub> Hours**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

**Practical session : 1<sup>1</sup>/<sub>4</sub> hours**  
**Planning test session : 30 minutes**

**INSTRUCTIONS TO CANDIDATES**

- a) Read the test carefully.
- b) Write your name and index number on every sheet of paper used.
- c) Textbooks and recipes may be used during the planning session as reference materials.
- d) You will be expected to keep to your order of work during the practical session.
- e) You are only allowed to take away your reference materials at the end of the planning session.
- f) You are not allowed to bring additional notes to the practical session.
- g) This paper consists of 2 printed pages.

Candidates should check to ensure that all pages are printed as indicated and no questions are missing

## **THE TEST**

You are hosting one of your friends for your birthday. Using the ingredients listed below, prepare, cook and serve two food items, include a refreshing drink.

### **Ingredients**

- ✓ Salt
- ✓ Beef
- ✓ Fat/oil
- ✓ Garlic
- ✓ Rice
- ✓ Onions
- ✓ Ginger
- ✓ Pilau mix
- ✓ French beans
- ✓ Fruits in season

### **Planning session: 30 minutes**

Use separate sheets of paper for each task listed below and the carbon paper to make duplicate copies then proceed as follows:-

1. Identify the dishes then write down their recipes.
2. Write your order of work.
3. Make a list of the foodstuffs and equipment you will require.

Name ----- Index Number: -----

Date .....

Sign .....

501/1

FRENCH PAPER 1

LISTENING COMPREHENSION, DICTATION AND COMPOSITION

JUNE 2019

2  $\frac{3}{4}$  hours

Instructions to candidates

- (a) Write your name and index number in the spaces provided
- (b) This paper has **THREE** sections
- (c) In section I ,you will have five minutes to read through the questions before the test starts before answering the questions you will listen to several recorded passages on a tape for each passage you will answer questions as indicated to you on the tape.
- (d) In section II, you will listen to a recorded passage. Follow the instructions as given in the recording.
- (e) In section III ,choose one composition from question 1 and one from question 2  
Write your compositions on the spaces provided
- (f) This paper consists of **7** printed pages

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(g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

**For Examiner's use only**

| Section            | Maximum Score | Candidate's Score |
|--------------------|---------------|-------------------|
| I                  | 15            |                   |
| II                 | 05            |                   |
| III                | 15            |                   |
| <b>Total Score</b> | <b>45</b>     |                   |

**PASSAGE 1.**

a) Ou se trouve les messieurs et les Mesdames dans cette annonce? (1 point)

.....

b) Remplissez ce tableau (3 points)

|  | Equipe | Nature de problème |
|--|--------|--------------------|
|--|--------|--------------------|



|     |       |                       |
|-----|-------|-----------------------|
|     |       |                       |
| i   | ..... | Sécurité sociale      |
| ii  | Rose  | .....                 |
| iii | Bleue | L'assurance .....     |
| iv  | ..... | Bourses .....         |
| v   | ..... | Autres renseignements |

**Passage 2.**

a) Quel est le produit dont on parle ? (1 point)

.....

b) .....vont l'aimer mais les ..... ne vont pas l'aimer.  
(1 point)

c) Le produit vient de quel pays ? (1 point)

.....  
d) Ce produit comprend quel vocabulaire ? (1 pt)

.....  
e) Où peut-on trouver ce produit ? (1 pt)

**Passage 3.**

a) Il s'agit de quoi cet atelier ? (1 pt)

.....  
b) Il commence le mardi le 1<sup>e</sup> a ..... (½ pt)

c) Quel est le jour d'arrivée ? (½ pt)

.....  
d) Qu'est-ce que les participants doivent apporter ? (1 pt)

.....  
e) Les exercices personnels se terminent à quelle heure ? (½ pt)

**Passage 4.**

a) Il s'agit de quoi ce concours ? (1 pt)

.....  
b) Le concours dure combien de semaines ? (½ pt)

.....  
c) Qui posait des questions aux finalistes ? (1 pt)

SECTION II.

DICTEE.

Write the dictation in the spaces provided.

.....  
.....

SECTION III

Write your two compositions in the spaces provided.

In 120-150 words, write in French on,

Either,

a) Vous avez rencontré un(e) ancien(ne) ami(e) de l'école primaire au supermarché en ville. Ecrivez le dialogue entre vous (A) et votre ami(e) (B)

Or,

b) Vous êtes malade et vous êtes allé( e) chez le docteur. Ecrivez le dialogue entre vous (A) et le docteur(B).

In 150-180 words, write in French on,

Either,

a) Vous avez visité le parc national avec vos camarades de classe mais malheureusement le bus est parti sans vous. Racontez la suite.

Or,

b) Vous êtes allé pour le cours de français et le professeur n'était pas content. Racontez la suite.

.....

.....

.....

.....

**501/2**

**FRENCH**

**PAPER 2**

**Reading Comprehension and Grammar**

**TIME: 1 ½ HRS**

**F3 SET 3 CHAMPIONS HOLIDAY  
EXAMS 2020  
FORM 3**

**Instructions to candidates:**

- (a) Write your name, index number, date of examination and signature in the spaces provided above.
- (b) Answer all the questions in the spaces provided.
- (c) Check the question paper to ascertain that all the pages are printed.

(d) Answer the question in French.

| SECTION | MAXIMUM SCORE | CANDIDATE'S SCORE |
|---------|---------------|-------------------|
| I       | 15            |                   |
| II      | 15            |                   |
|         | TOTAL SCORE   |                   |

### SECTION 1

#### READING COMPREHENSION

(15MKS)

#### PASSAGE 1

Le café est un endroit typique de la vie française. C'est un lieu agréable: en hiver, il y fait chaud, et en été, quand les chaises et les tables sont dehors, on peut profiter du soleil et du spectacle de la rue. Les écrivains et les artistes ou les hommes politiques ont leurs cafés. A Paris, les cafés le Flore et les Deux Magots sont célèbres parce que des écrivains américains (Ernest Hemingway, F. Scott Fitzgerald...) et français ( Jean – Paul Sartre, Simone de Beauvoir...) y venaient pour écrire.

A proximité des lycées et des universités, il y a toujours des cafés où se retrouvent les lycéens et les étudiants. Ils y viennent pour manger des sandwiches, discuter, faire leurs devoirs ou tout simplement pour passer le temps. Leurs cafés préférés sont ceux où ils ne sont pas obligés de trop consommer.

1. Quel avantage y a-t-il dans les cafés pendant l'hiver ? (1/2 mk)

.....  
.....  
.....  
.....

2. Qui est Sartre ? (1/2 mk)

.....  
.....

3. Combien d'activités est – ce que les étudiants font dans les cafés ? Lesquels? (2 ½ mk)

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

4. Pourquoi est-ce que les étudiants fréquentent certains cafés? (1/2 mk)

.....  
.....  
.....  
.....

5. En quelle saison est – ce qu'on ne s'assoit pas dedans un café? (1/2 mk)

.....  
.....

**PASSAGE 2**

Pour la deuxième fois en une semaine, la banque manqué-Paris a été victime de malfaiteurs, Hier, après-midi, un coursier de cette banque été victime d'un vol á l'arrache. Une opération s'est passée en quelques secondes. Il était 16h35 quand l'employé qui effectuait un transfert de fonds était bousculé par individu á hauteur du no. 177 de la rue Garibaldi. Agissant un visage ouvert et sans arme, le gangster âgé d'environ 18 ans qui portait un blouson marron lui arrachait son sacoché contenant 30,000 euros en espèce et quelques devises étrangers avant de sauter sur un vélomoteur par un complice.

1. Quand le vol s'est-il passé? (1/2 mk)

.....  
.....

2. Où était l'employé quand l'argent a été vole. (1mk)

.....  
.....

3. Combien d'argent a été volé? (1mk)

.....  
.....

4. Décrivez le voleur (1/2 mk)

.....  
.....

5. Donnez un mot du passage pour. (2 mks)

i. Messenger

.....  
.....

ii. Presque

.....  
.....

iii. **Ouvrier**

.....

.....

iv. **Voyou**

.....

.....



**PASSAGE 3**

La seiche est capable de changer de couleur et de se camoufler au point de devenir quasiment invisible à l'œil humain. Selon une étude, elle << est connue pour avoir une large gamme de motifs corporels et passer de l'un à l'autre presque instantanément>>. Comment s'y prend –elle ?

La seiche change de couleur grâce à ses chromatophores. Ces cellules, qui sont logées sous sa peau, contiennent des sacs remplis de pigments et entourés de tout petit muscle. Quand la seiche a besoin de se camoufler, son cerveau émet un signal pour que les muscles se contractent : les sacs s'élargissent, les pigments s'étalent, et la peau de la seiche change alors rapidement de couleur et de motif. La seiche utilise cette capacité à se camoufler, pour impressionner des partenaires potentiels et peut-être même pour communiquer.

a) Le texte parle de la ..... de la seiche à ..... de couleur.

(1mk)

b) Que est – ce qui aide le seiche à se camoufler ? (1/2mk)

.....  
.....

c) D'après le texte, il y a deux avantages de se camoufler. Lesquels . (1mk)

i. ....  
.....

ii. ....  
.....

d) Donnez l'antonyme du mot : <<rapidement>> (1/2mk)

.....  
.....

**PASSAGE 4**

Grâce à la technologie, tu peux être en contact avec plus de gens facilement – qu'à n'importe quelle autre époque. Pourtant, les amitiés que tu as peuvent te sembler superficielles. Un

jeune l'exprime en ces termes. : << J'ai l'impression que mes amitiés pourraient s'effondrer du jour au lendemain. Mon père, lui, est proche de certains de ses amis depuis des dizaines d'années!>>

Pourquoi est-il si difficile au jour d'hui de construire des amitiés solides ?

- a) À cause de la technologie on peut :
- i) .....  
..... (1/2mk)
  - ii) .....  
..... (1/2mk)
- b) <<J'ai l'impression que mes amitiés pourraient s'effondrer .....>>. Ce la veut dire que  
.....  
..... (1mk)
- c) Cherchez dans le texte l'équivalent du mot <<cependant>>  
.....  
..... (1/2mk)

**SECTION 2**

**GRAMMAR (15 MKS)**

Answer the following questions beginning as indicated. Make necessary changes where possible. (8mks)

Exemple : As – tu visité la nouvelle bibliothèque?

Oui, je l'ai visitée.

- a) **JOURNALISTE** : Monsieur Kimani, vous etes pilote depuis dix ans?  
**KIMANI** : Oui, ça fait ..... (1/2 mks)
- b) “ Nous allons voir nos cousins demain. “

Elles ont dit

.....

(1 1/2 mks)

c) Est- ce que maman met du sel dans la soupe ?

Oui, elle

.....

.... (1mk)

d) Tu dois être à l'heure pour la reunion.

Il faut que tu

.....

( 1/2 mk)

e) Il a patiemment attendu mais les resultats ne sont pas arrivés.

Malgré

.....

..... (1mk)

f) Je ne peux pas finir ce travail car je n'ai pas le temps.

Mais, si j'ai le temps

..... (1mk)

g) L' employé a faim mais il continue á servir les clients.

L' employé continue á servir les clients en

..... (1mk)

h) Vous n'êtes pas prêts? .....,nous sommes prêts.

(1/2mk)

i) GROUPE 1: Faut – il retourner à la réception après le tour?

GUIDE: Non, vous

..... (1mk)

**Remplissez chaque blanc d'un seul mot pour completer le dialogue suivant** (4mks)

**MALICK :** Joseph, ..... (1) viens – tu, et où vas tu en survêtement?

JOSEPH : Je viens ..... (2) participer  
..... (3) un  
marathon.

MALICK : Mais, ..... (4) marathon?

JOSEPH : C'est organise chaque année .....  
(5) « Safaricom »

..... (6) collaboration avec le ministere de la  
santé.

MALICK : ..... (7) quoi s'agit- il?

JOSEPH : C'est .....(8) lutter contre la diabéte qui devient  
une grande  
menace dans notre société surtout chez les enfants et les jeunes.

Rearrange the following dialogue to make sense. Use the letters A, B, C, D

A : Bien sûr, mais je crois que nous n' y pouvons rien.

B : Non, désolé, je ne suis pas au courant.

C : Certainement pas. Leur carrière est comp lètement conditionnée par les médias  
sociaux. Si cela m' arrivait, je protesterais

D : Tiens, tu connais la dernière nouvelle ?

DJ MO a épousé AVRIL

E : C'est incroyable comme on dévoile la vie des gens célèbres.

F : Les personnalités dont dévoile la vie privée doivent refuser ce genre de tapage  
médiatique !

(i) .....

(ii) .....

(iii) .....

(iv) .....

(v) .....

(vi) .....

COMPILED BY MR.GER. O. CHARLES  
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