# F2 TERM 1 ASSIGNMENT
# ALL SUBJECTS
## SET 1

## Attempt & Present this Work on Opening Day.

## For Marking Schemes Call 0705525657

**NAME:** ………………………………….. **ADM NO:** ……….............

## ENGLISH

### SECTION A : WRITING   (20mks)

1. You attended a cousin's wedding during the April holiday. On the day of wedding, your younger sister Celestine Wanjiku went missing. You decided to help your parents in the search for the girl, hence, you did not open school with the rest, which is against the school rules.

   Write a letter of Apology to the Principal of your school, explaining what made you not report on the first day of the term.

   …………………………………………………………………………………………………………
   ……………………………………………………………
   ………………………………………………………………………………..

### SECTION  B: COMPREHENSION                 (20mks)
### Read the passage below and answer the questions that follow
Decades ago, two geologists visited Migori County and left villagers with high hopes of striking it reach.

A valuable mineral had been discovered.

Now, 20 years later, nothing much has been done to tap the gold in Macalder. Instead, hundreds of people have died in the process of digging the mines, while pregnant women working in the area have been giving birth to children with deformities.

Residents attribute their misfortunes to lack of modern equipment to professionally exploit the mineral. They have been mining gold using mercury mixed with water and powdered stones which they stir to the consistency of porridge before washing off the mercury into their farms.

One man is keen to prevent deaths among the residents depending on gold mining as a source of income. He has invented a gold mining machine- the ball mill machine.

Mr. Olello, 41says he got idea for the machine from a friend who went to Zimbabwe on business and returned with a photograph of a gold mining machine.

"It took me two years to design my first machine and in 1999, I eventually came up with the ball mill". Mr.Okello says his villagers neither knew nor cared whether mercury was harmful to their health.

Mr. Okello explains that his machine is a multipurpose appliance. It can mill numerous kinds of rocks for building materials industry.

For gold mining, the machine uses small steel ball grinders which separate gold ore from dust, after which it is further refined.

Among the places that have been mapped for gold deposits within the region are Rongo, Kehancha in Kuria District; Masara and Kehara in Nyatike constituency, Lolgorian area in Trans Mara and some parts of Siaya county.

Gold qualities make it one of the most coveted metals in the world. Not only can it be beautifully shaped and sculpted, the yellow metal conducts electricity and does not tarnish.

Gold has been used in dentistry for nearly 3,000 years. It is used for filling, crowns, bridges and orthodontic appliances. Gold can be placed in contact with person's body and not cause harm.

QUESTIONS
a) What gave the villagers the hopes of striking it rich?                    (2mks)

b) Outline the challenges experienced by the villagers in the mines.              (2mks)

c) What according to the residents contribute to their misfortunes?              (2mks)

d) Explain how the rate of deaths among the villagers has been prevented.          (2mks)

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e) How did Mr. Okello get the idea of the machine? (2mks)

f) "It took me two years to design my first machine and in 1999 I eventually came up with the ball mill,"says Mr. Okello.  (Rewrite in reported speech)
   (2mks)

g) Mr. Okello explains that the machine is a multipurpose appliance(add a question tag) (1mk)

h) Make notes on uses of gold (4mks)

i) State the meaning of the following words as used in the passage    (3mks) i. Invented –

ii.    Mapped –

iii.    Coveted-

**SECTION C**: CLOZE TEST                              (10mks) Fill in the blank spaces with the most appropriate word.

What is  good  governance? This is a question that people  _1_____ very often. It refers to the responsible __2_____ of the affairs of a  village, town or country. Where there is good governance, people live in harmony; ways of __3_____ poverty are sought and people assume ownership __4_____ the process of developing their communities.

 __5_____ the government is expected to create a _6_____ political and legal environment for development, it cannot succeed if ordinary citizens do not co-operate and play their role. Everyone craves  for the _7_____ of the rule of law,  but if we do not obey that _8_____ law, we will not know peace. We accuse certain sectors of  _9_____ but give bribes in order to induce others to give us _10_____ treatment. If we realy desire to have

positive changes in our society, we must change our attitude and join our hands in building a society.

**SECTION D: ORAL SKILLS** (15mks)

I. *Read the narrative below and answer the questions that follow.*

One day the chameleon and the donkey were arguing as who could run faster than the other. The donkey said; "You chameleon, you are very old. You can't compete with me in a race."

The chameleon replied, "Don't blow your own trumpet. I am not going to praise myself but I know you can't defeat me in a race. We shall be equal."

The race began and the chameleon jumped on the donkey's tail. They ran until the donkey was so tired that he stopped to rest. As soon as the donkey stopped, the chameleon jumped from the donkey's tail and said, "Now my friend donkey, are you faster than I ?"

"No, now I know that you are a man."

Questions

a) Mention any **two** things you would do to capture the attention of the audience before you begin your narration. (2mks)

b) Explain any **two** ways you would use to make the narration from, "The chameleon replied……(line 4) …We shall be equal. (line 5) effective.
(2mks)

c) If you were part of the audience for this story, explain three things you would do to show that you are participating in the performance. (3mks)

II. In each of the following words, underline the syllable that is stressed. (4mks) a)
chal **.**lenge (verb)

b) ad.vise

c) ac.cent(noun)

d) de.lete

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III.   For each of the following words, write a word that is pronounced the same way      (4mks) a) time

   b) toad

   c) what

   d) seller

## SECTION E:   LITERARY APPRECIATION      (20mks)

Read the song below and answer the questions that follow.

### Daughter of Lekamoi

Oh, mother
Behold the daughter of Lekamoi
Who has just grown up Young
woman, when will she return When
does my love come back?
Daughter of the bull?
Woman, come, let me see you,
Listen;
Daughter of Lekamoi
Leader of the girls When
does my own arrive? Ah!
Abul, chief of women.
Her neck resembles a snake
Coming out of a vase
Behold, daughter of Lekamoi

Her teeth are like ash
Oh, when does my love come back?
Daughter of the bull
Abul, come and dance before me
Listen
Daughter of Lekamoi
Who has just shot up,
All men want her
Ah, Abul, chief of women
My girl appears on the path from
Anaka
Behold the daughter of Lekamoi
Tall and graceful

With whose daughter can you
Compare her? My companion,
when will She return?
Daughter of the bull
Woman come, I will take
You from your husband, Listen
Daughter of Lekamoi,
Leader of the girls, Ye,

all the men want her

Abul,Chief of women.

## Questions

i.      What type of song is this? Give reasons for your answer.                        (2mks)

ii.     who is the singer?                                                                              (1mk)

iii.    To whom is the song sung?                                                             (1mk)

iv.     Describe the singer's attitude towards the subject?                        (3mks)

v.      Where is Abul at the time of singing?                                            (2mks)

vi.     What makes the song an **oral** song? Support your answer            (4mks)

vii.   Identify and illustrate any **two** poetic styles used in this song          (4mks) viii.   With illustrations, describe the mood of the song?                    (3mks)

**SECTION F:  GRAMMAR**                              **(15mks)**

**I.      Fill in the blank spaces with the correct preposition.**                              **(4mks)**

a)  Every member was asked to part _____ twenty shillings for the purchase of the gift.

b)  He bought a bicycle_____ loan from the credit shop in town.

c)  We heard the news _____ the radio.

d)  Have a look of yourself _____ the mirror.

**II.        Fill in the blank spaces using the correct form of the verb in the blanket**
**(4mks)**

a)  If I had the money, I _____          (buy)  the computer already.

b)  If I _____( be) Bill Cosby, I would have helped the poor with the money I

made.

c)  We _____(walk) along Koinange street when we met him.

d)  The party _____(start) when we arrived.

**III. Rewrite each of the following sentences as instructed.**                              **(5mks)**

a)  Wanjohi is more responsible than his brother. Wanjohi is the last born.

*Join  the two sentences, beginning with the word 'although'*

b)  The man bombed the hotel.

He was finally arrested.

*Join the two sentences, using the word 'who'*

c)  Jane is strong. Her  brother is equally strong.

*Join the two sentences using a comparative*

d) The young man was very hungry. He swallowed the potato without chewing it.

*Join the two sentences beginning with 'so'*

(e) Kimani said, "I will do the work tomorrow"

*Rewrite in reported speech*

IV. Arrange the adjectives in brackets and use them to fill in the blank spaces.

a) The East African community has _____forces.

(Combined, military, powerful).

b) She bought a _____ bed.

(huge, wooden, old, Japanese)

# JINA………………………..…..DARASA:…..……

# NAMBARI:………

## KISWAHILI

## KIDATO CHA PILI

**MAAGIZO**

**Jibu maswali yote.**

1. **UFAHAMU**

*Soma makala yafuatayo kisha ujibu maswali.*

Changamoto kubwa inayowakabili watu wengi katika mataifa yanayoendelea ni suala la chakula. Suala hili linaweza kuangaliwa katika sawia mbili tofauti. Kuna tatizo linalofungamana na uhaba wa chakula chenyewe. Uhaba huu unaweza kutokana na utegemezi mkubwa kwa zaraa kama nyenzo kuu ya uzalishaji wa chakula.

Zaraa katika mataifa mengi hususan yanayoendelea, hutegemea mvua. Kupatikana kwa mvua huathiriwa na mabadiliko ya tabianchi ulimwnguni. Matendo na amali za watu kama ukataji wa miti na uchafuzi wa mazingira huwa na athari hasi kwenye tabianchi hiyo. Mabadiliko ya tabianchi huweza kuvyaza ukama kutokana na **ngambi ya mvua**.

Kibinimethali kutokea wakati mafuriko yanapotokea na labda kuyasomba mazao mashambani na kusababisha baa la njaa. Hali hizi mbili husababisha matatizo makubwa ya chakula na kuathiri pakubwa suala zima la usalama wa chakula. Ili kuzuia uwezokano wa kuwepo kwa shida hii, pana haja ya kuwepo kwa mikakati na sera za kuhakikisha kuna usalama wa chakula. Kwa mfano, pana haja ya kukuza kilimo cha umwagiliaji ili kuepuka **adha** inayosababishwa na ukosefu wa mvua. Kwa upande mwingine, sharti zichukuliwe hatua mufidi za kuzuia na kupambana na athari za gharika.

Changamoto nyingine inahusiana na usalama wa chakula chenyewe. Chakula kilichosibikwa na vijasumu au kwa njia nyingine ile huweza kumdhuru anayehusika. Msibiko

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wa chakula unatokana na vyanzo tofauti. Mathalan uandalizi wa chakula kilichochafuliwa na choo, kutozingatia mbeko za usafi, uandaaji wa chakula na kukiweka katika hali ya uvuguvugu kabla ya kukipakua – hali inayochochea ukuaji wa viini na ulaji wa chakula kisichoandaliwa vyema.

Ili kuepuka uwezekano wa kuathirika, pana haja ya kuzingatia usafi wa chakula na uandalizi unaofaa. Fauka ya hayo, vyombo cya uandalizi view safi, kanuni za usafi zifuatwe, upikaji na uandaaji uwe kamilifu. Hali hii isipozingatiwa, siha za raia wenyewe zitaathirika pakubwa.

**Maswali.**

1. Taja aina mbili za kuangalia suala la chakula katika mataifa yanayoendelea. (alama 2)

2. Taja hatua mbili zinazoweza kuchukuliwa kupambana na tatizo la chakula. (alama 2)

3. Eleza jinsi nne tofauti namna chakula kinavyoweza kuwa si salama? (alama 4)

4. Kwa nini ni rahisi kukipakua chakula baada ya kukiandaa tu? (alama 1)

5. Ni mapendekezo gani anayoyatoa mwandishi kuhakikisha kuwa chakula kinafaa?

(alama 4)

**MATUMIZI YA LUGHA**

1    Kwa kutoa mifano eleza tofauti kati ya:

(alama 2) **ix.**    Silabi funge

**x.**    Silabi wazi

2    Onyesha sauti zenye sifa zifuatazo:                                    (alama 2)
**I.**    Kipasuo cha ufizi
**II.**    Kikwamizo cha kaakaa laini

3    Tambua aina ya nomino katika sentensi zifuatazo.
(alama 2)
**e)**  Mchanga hufanya miti kumea.

4    Bainisha mofimu katika kitenzi.    (alama 2)
Kilipikika

5    Tambua vivumishi katika sentensi ifuatayo na ueleze ni vya aina gani.
(alama 2) I.    Mtoto wake ameng'oka jino.

II.    Msemo wenye tafsida hupendwa.

6        <u>Andika kinyume cha:</u>                                    (alama 1)
Tulinunua nguo aliizozianika jana.

7        <u>Nomino 'uki' iko kwenye ngeli gani.</u>                                    (alama 1)

8        <u>Ainisha vitenzi kwenye fungo zifuatazo:</u>
(alama 3)
e)    Yatakuwa yangali yanakoma.

f)    Maria na Atieno ni wanafunzi watiifu.

9        <u>Onyesha vielezi katika sentensi zifuatazo.</u>
(alama 2) iv.        Rais ametutembelea mara sita mwaka huu.

v.    Nendeni haraka shuleni.
10        <u>Eleza maana inayojitokeza kwenye sentensi ifuatayo.</u>
(alama 1) V.    Waiteni watu wale.

11    Tumia kiwakilishi kisisitizi kutungia sentensi ya wingi wakati uliopita.
(alama 2)

**ISIMU JAMII**

**Soma makala yafuatayo kisha ujibu maswali.**

Haya ng'ara … Ng'ara leo! Nguo motomoto. Ng'ara leo kwa bei rahisi. Hamsini hamsini shati. Kuona ni bure. Bure kwa bure. Shika mwenyewe ujionee. Bei nafuu. Bei ya starehe. Haya, haya. Usikose mwanangu! Hamsa! Hamsa! Fifty!Hamsa! Fifty! Hamsa na nyingine.

**Maswali.**

e) Bainisha sajili ya mazungumzo haya.                              (alama 1)

f) Eleza sifa nane za sajili hii kwa kurejelea kifungu hiki.          (alama 4)

**FASIHI SIMULIZI.**

d) Fafanua maigizo.                              (alama 2)

e) Ainisha kipera cha maigizo.                          (alama 4)

f) Eleza sifa za maigizo.                          (alama 4)

# NAME: ………………….. ADM NO: ………….
# CLASS: ………….
# FORM TWO MATHEMATICS

**TIME: 1 ½ HOURS**

**Attempt all the questions in the spaces provided.**

1.  Solve for x in the equation:      (3 mks)

    $32^{(x-3)}$  X  $8^{(x+4)}$ $= 64 \div 2^{x}$

2.  Simplify   without using a calculator or a mathematical table

    $$\frac{Sin\ 90^{o}\ Cos\ 45^{o}}{Sin\ 45^{o}}$$                                        (2 mks)

3.  A line which joins the point A(3, k) and B(-2, 5) is parallel to another line whose equation is 5y + 2x = 10.  Find the value of K.      (3 mks)

4.  A group of 5 people can do a piece of work in 6 hours.  Calculate the time a group of 8 people, working at half the rate of the first group could take to complete the same work.  (3 mks)

5.  Calculate the area of the shape below.                                        (3 mks)

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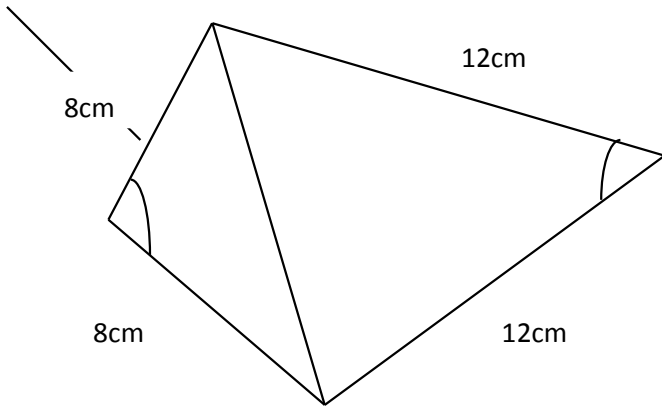
6. The length of a minute hand of a clock is 3.5cm. Find the angle it turns through if it sweeps an area of 48cm. (Take $\pi = 22/7$) (2 mks)

7. Two years ago, Jane was twice as old as John. If the sum of their ages 5 years from now will be 44 years, calculate their present ages. (3 mks)

8. Express $1.9\dot{3} + 0.\dot{2}\dot{5}$ as a single fraction. (3 mks)

9. The surface area of two similar bottles are 12cm² and 108cm² respectively. If the larger one has a volume
of 810cm³, find the volume of the smaller one. (3 mks)

10. Simplify the following expression
$$\frac{7x - 7xy}{7 - 7y}$$
(2 mks)

11. Use mathematical tables to evaluate: (4 mks)

$$\sqrt{\frac{1.794 \times 0.038}{12.43}}$$

12. In the diagram below, determine the equation of the line XY in the form $y = mx + c$ (3 mks)

A(-2,

X

Y

B(4, 7)
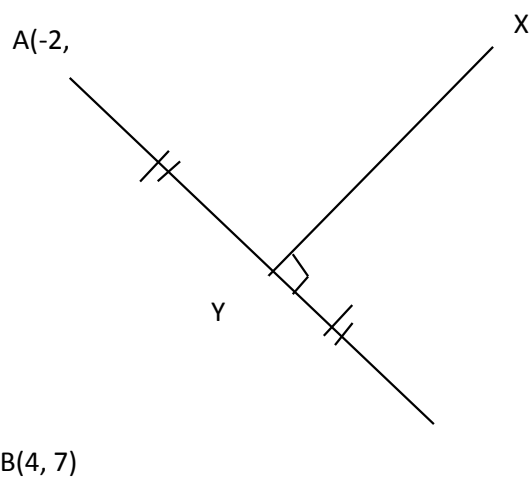
13. An aircraft flying onto an airport calls out the control tower and says it is at height of 500m     above the tower.  If its horizontal distance from the tower is 8km, calculate the angle of
 elevation from the tops of the tower.     (3 mks)

14. The figure below shows an isosceles triangle in which AB = AC = 6cm.  Angle BAC = 80˚.
Calculate the length of BC.

(3 mks)
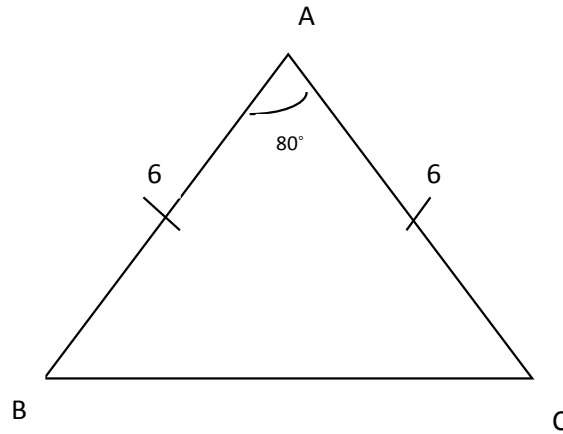
15. Solve the equation. (1 mk)

    $\sin y2 = \cos 26°$

### SECTION II(30 MARKS)

**Choose any three questions only.**

16. The vertices of a triangle PQR are P(0, 0)  Q(6,0) and R(2,4)

    (a) Draw triangle PQR on the grid provided. (1 mk)

    (b) Triangle P'Q'R' is the image of a triangle PQR under an enlargement scale factor ½ and centre (2,2) write down the coordinates of P'Q'R' and plot on the same grid. (3 mks)

    (c) Draw triangle P"Q"R" the image of triangle P'Q'R' under a positive quarter turn about point (1,1) (3 mks)

    (d) Draw triangle P$^{III}$Q$^{III}$R$^{III}$ the image of P"Q"R" under a reflection in the line y = 1.

17. In a school, there are 1250 students, each student contributed sh 380 towards a welfare programme. The money contributed was used to purchase 75 bales of maize flour which was shared equally among 50 families.  One bale of maize flour contains 12 packets and costs sh 1050.  The remaining amount was shared equally among 125 students as bursary.  Calculate:

    (a) The total amount collected. (2 mks)

    (b) The total number of maize flour bought (2 mks)

    (c) The number of packets each family got. (2 mks)

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(d)  The amount of money that remained.                                    (2 mks)

(e)  The amount of bursary that each student got.                          (2 mks)

18.  Find the area in hectares of a maize field whose measurements are shown in the field book
    below.  The baseline PQ is 300m long.                             (10 mks)

| | Q | |
|---|---|---|
| | 250 | 70B |
| C100 | 180 | |
| | 80 | 150A |
| | P | |

19.  The marked price of a sewing machine is sh 30,000.  A discount of 10% is given on cash        payment.
    The sewing machine can also be bought on hire purchase.  The hire purchase terms        requires a
    deposit of sh 10500 followed by 12 equal monthly installments of sh 2150 each.

    (a)  Calculate:
            (i)  The cash price of the sewing machine.                                    (2 mks)
    (ii)  The hire purchase value of the sewing machine.                        (3 mks)

(b) Korir bought the sewing machine by cash while Akinyi bought it on hire purchase.  How much did Akinyi pay for the machine than Korir?                                    (3 mks)

(c) Calculate the percentage increase in hire purchase price over the marked price.(2 mks)

20. (a) Complete the following tables for the equations:
    (i)  $y = 5x - 7$
    (ii) $y = 9 - 3x$

**Table 1**

| X | -2 | -1 | 0 | 1 |
|---|---|---|---|---|
| y |  | -12 |  | 7 |
| (x,y) |  | (-1, -12) | (0, -7) |  |

**Table 2**

| X | -2 | -1 | 0 | 1 |
|---|---|---|---|---|
| y | 13 |  |  | 7 |
| (x,y) | (-2, 13) |  |  | (1, 7) |

(b) On the same grid, draw the graphs of:                                           (4 mks)
        (i)  $y = 5x - 7$
        (ii) $y = 9 - 3x$

(c) Use your graphs to solve the following simultaneous equations.             (2 mks)
        $5x - y = 7$
        $3x + y = 9$

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# CHEMISTRY

**Answer all the questions in the spaces provided.**

1.  How many atoms of each element are present in each of the following compounds:
       (a)  Ammonium carbonate -                                                         (2 mks)

       (b)  Zinc chloride -                                                              (2 mks)

2.  The table below shows some elements in the periodic table.  Use it to answer questions that        follow.  The letters are not the actual symbols of the elements.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P | | | | | | | Q | R |
| | | | | | | | S | T |
| V | | | | | | | | |
| | | | | | | | | |

(a)  An element K has an atomic number of 20.  Indicate its position in the grid.        (1 mk)

   (b)  Write the formula of the compound formed between V and S.                          (1 mk)

   (c)  Which element belongs to period 2 and group VIII?                                 (1 mk)

(d)  Write the electron configuration of:                                                 (3 mks)
(i)   P –

(ii)  Q

(iii) S –

(e)  Using cross (x) or a dot (▢) diagram to represent electrons, draw;

       (i)  Atomic structure of V.                                                        (2 mks)

       (ii)  Ionic structure of T.                                                        (2 mks)

3.  Determine the relative atomic mass of the following elements whose isotopic compositions        occur in the proportions given:

   (a)  Argon

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Ar (0.34%), $^{38}_{18}$Ar(0.06% and $^{40}_{18}$Ar(99.6%)                    (2 mks)

(b) Potassium$^{40}_{19}$K(0.01%) , $^{39}_{19}$K (93.1%) and $^{41}_{19}$K(6.89%)                    (2 mks)

4.  The following table gives a summary of some properties of elements PQR and S. The letters    do not represent the actual symbols of the elements. Study the table and answer the questions    that follow.

| Element | Electron arrangement | Valency |
|---------|----------------------|---------|
| P | 2.2 | 2 |
| Q | 2.7 | 1 |
| R | 2.8.2. | 2 |
| S | 2.8.8.2 | 1 |

(a)  Which two elements have similar chemical properties?  Explain.  (2 mks)

(b)  What is the most likely formula of a carbonate of S?    (1 mk)

(c)  (i) Identify the element which is a non-metal.                    (1 mk)

(ii)  With an explanation, state the family and the period to which the element in (i) above belongs.      (2 mks)

5.  Name the elements present in the following compounds.
(i)  Zinc sulphide –                            (2 mks)
(ii) Sodium nitrate -        (2 mks)

6.  The figure below shows a type of the flame produced by a bunsen burner.  (3 mks)
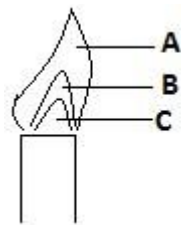
(a) Name the parts of the flame labeled A, B and C.   (3 mks)

(b) Name the type of the flame.                                                   (1 mk)

(c) Which of the parts in the above flame is the hottest?                          (1 mk)

7. Explain why most of the apparatus in the laboratory are made of glass.   (2 mks)

8. Solutions may be classified as strong base, neutral, strong acid, weak base or weak acid.  The information below gives some solutions and their pH values.  Study it and answer the     questions that follow.

| Solution | pH |
|----------|-----|
| A | 0.5 |
| B | 7 |
| C | 14 |
| D | 9 |

 Classify the solutions in the table using the stated classification:   (2 mks)
   A    –
   B    –
   C –
   D –

9. Below is a set up used to investigate the reaction of calcium with water.
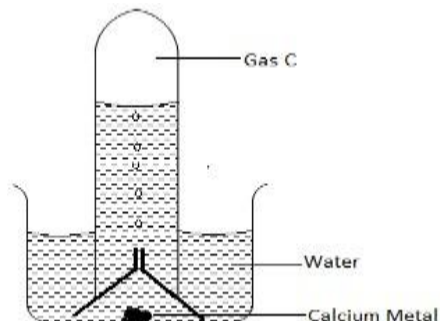


   (a) State the observation made in solution.
               (1 mk)

(b)  Identify gas C and state its test. (2 mks)

(c)  (i)  Write a balanced equation for the reaction between calcium and water. (2 mks)

(ii)  State the effect of the solution in C(i) on phenolphthalein indicator. (1 mk)

(iii) State one laboratory application of the solution formed in the reaction. (1 mk)

10.  (a)  Name the particles that are found in an atom. (1 mk)

(b)  Atoms are said to be electrically neutral.  Explain. (2 mks)

(c)  Distinguish between:
     Atomic number and atomic mass. (2 mks)

# NAME: ………………………………………

# ADM NO ….......... CLASS..........

## BIOLOGY

vi.   Define the following terms.

(2mks)

e)   Taxon

………………………………………………………………………………………………

………………………………………………………………………………………………

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f)   Taxonomy

…………………………………………………………………………………………

………………………………………………………………………………………………

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vii.   A donkey and a horse can breed and produce a young one called a mule. Explain why they do not belong to the same species. (2mks)

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**FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657**

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viii. Give **one** reason for each of the following operations in microscopy work. (3mks)

g) Adding a drop of iodine solution.......................................................................................

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h) Covering the specimen with a cover slip.

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i) Cutting the specimen using a sharp blade.

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ix. The table below shows the concentration of mineral A and B in sea water and in the cell sap of a certain sea weed.

| Mineral | Concentration in sea water in (ppm) | Concentration in the cell sap in (ppm) |
|---------|-------------------------------------|----------------------------------------|
| A | 16 | 108 |
| B | 39 | 11 |

9.  Suggest the physiological process by which mineral A and B were absorbed by the sea

    weed.

    ..................................................................................................................................(2 m

    ks)
10. State and explain the mineral that would fail to be absorbed if the sea weed was treated
             with respiratory poison.
    (2mks)

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x.      Differentiate between fats and oils.

        (2mks)

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xi.     Name the element contained in all proteins.                                            (1mk)
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xii.    The diagram below shows the dentition of an animal.
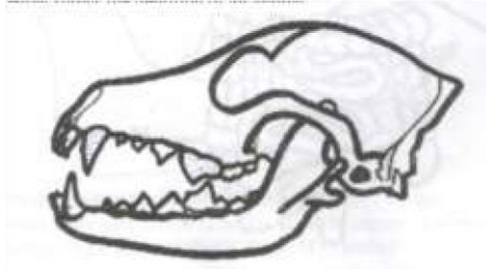


c)    Identify the mode of feeding of the animal with the dentition above.
(1mk)

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d)    Give **two** reasons for your answer in (i) above.
(1mk)

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xiii.    State **two** functions of mucous produced in the gastro-intestinal tract.
(2mks)

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................. xiv.    The diagram below shows a set-up used to investigate a certain process in plants.

Leafy shoot
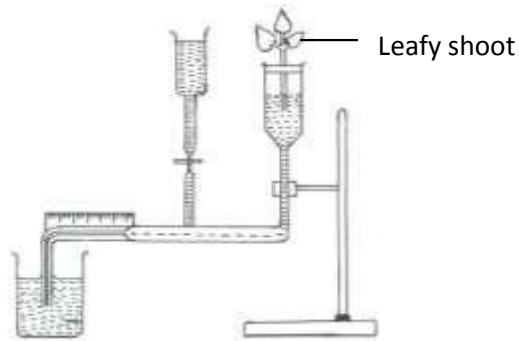
g) Identify the process being investigated. (1mk)

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h) Name the equipment represented by the diagram above.
(1mk)

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i) Give **two** precaution that should be taken when setting up this experiment.
(2mks)

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xv.      Explain the following concepts:

   III.      Some plants fold their leaves in dry weather.
           (2mks)

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   IV.      Leaves of plants from arid areas have fewer stomata on the upper leaf surface.
           (2mks)

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xvi.     A lady had her veins swollen at the back of the legs. The swellings are painful. g) Name this

      condition........................................................................................................(1mk)

h) What causes the

condition?..............................................................................(1mk)

i) How can the condition be corrected?

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xvii.    State **three** differences between open and closed circulatory system.
(3mks)

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xviii.    In what chemical form is oxygen transported in the blood.
(1mk)

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xix.    Give **two** protective roles of mammalian blood.
(2mks)

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xx.     Name:

xi.     A vitamin that is needed in blood
        clotting......................................................................(1mk)

xii.    A metal ion needed in blood clotting.
        .............................................................................(1mk)

xiii.   An anti-clotting factor found in mammalian blood that prevents blood from clotting
        before an injury.
                (1mk)

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xiv.    Two enzymes needed in blood clotting.
        (2mks)

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xxi.    State **two** ways in which blood clotting is beneficial to humans.
        (2mks)

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xxii.     State one:-

    XV.      Advantage of people having blood group O.
           (1mk)

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    XVI.     Disadvantage of people having blood group O.
           (1mk)

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xxiii.    What is gaseous exchange?
      (2mks)

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xxiv.    Give two reasons why gaseaous exchange is important in human beings.      (2mks)

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xxv.      The diagram below shows the structure of a gill of a bony fish.
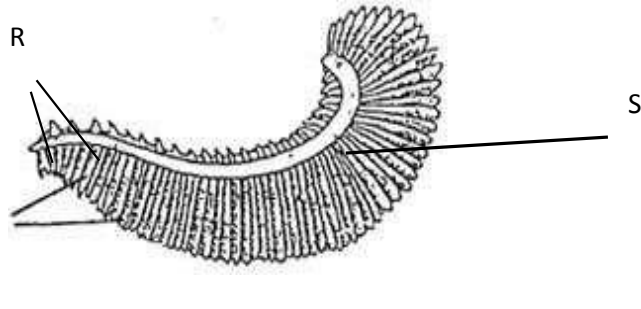


VI.      Name the structure labeled Q, R and S.

(3mks) Q

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R.………………………………………………………………………………………………………………………………………………………………

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S

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VII.      State the function of structure Q, R and S.

(3mks) Q

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R

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S

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VIII.     Give **four** ways in which structure Q is adapted to its functions.                              (4mks)

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xxvi.     State **two** theories that explain the mechanisms of opening and closing of the stomata.

(2mks)

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xxvii.    Name the structure or surfaces involved in the gaseous exchange in the following
organisms.
                    (4mks) III.
          Fish

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     IV.    Insects.................................................................................................................................

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     V.     Plant....................................................................................................................................

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VI.     Amoeba.............................................................................................................................
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xxviii.     State **three** factors that affect the rate of breathing in human beings.
(3mks)

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xxix.     Describe what happens during the light stage of photosynthesis.
(3mks)

# PHYSICS FORM TWO
## NAME: …………………………ADM NO: ………..
## CLASS:…….

**INSTRUCTIONS.**

*1. Answer all questions in the spaces provided below.*

1. Define the following terms giving appropriate examples.    (4mks)    a) Magnetic materials-

 b) Non-magnetic materials-

2. $0.01cm^3$ of oil spreads out on water to form a patch of diameter 28cm. estimate the diameter of an oil molecule ,and express your answer correct to 3s.f.g.  (3mks)

3. A uniform meter rule with a mass of 200g suspended at zero mark is pivoted at the 22.0cm mark. Calculate the mass of the rule.          (4mks)

4. State **three** uses of magnets.  (3mks)

5. Explain the following.        (4mks)

a) Principal of moments of a force.

b) Moment of a force is a vector quantity.

6. The micrometer screw gauge below has a zero error of -0.15.Determine the final Redading of the instrument.  (3mks)
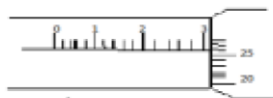


7. State **two** factors that affect the centre of gravity. Explain each briefly.        (4mks)

8. State **two** practical applications of the C.O.G.    (2mks)

9 .A solid weighs 36N on the Moon .The force due to gravity on the moon is 1.7N/Kg. Determine the mass of the solid.
    (3mks)

10. Use simple sketches of a cone to illustrate the three states of Equilibrium.          (3mks)

11.a) Give a reason why water is not suitable as a barometric liquid.   (2mks)

   b) Explain the application of 11(a) above.  (1mk)

12.Determine the density in SI units of a solid whose mass is 40g measuring 30cm long, 4cm wide and 3cm thick.  (4mks)

14.a).Sketch **two** diagrams of a wire loop dipped in soap solution to illustrate the surface tension experiment.
    (2mks)

   b) Explain the observation in 14 (a) above. (2mks)

15.A uniform wooden bar of length 1m and mass 5kg is pivoted at 40cm mark as shown below.

Calculate the value of F1.     (4mks)
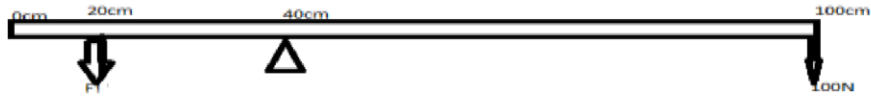


16. Using domain theory of magnetism, explain how a magnet may lose its magnetism on heating and hammering. (4mks)

17. Distinguish between soft and hard magnetic materials.     (2mks)

18. A boy jumping from a high table tends to spread his legs. Explain   (1mk)

19. State **two** differences between mass and weight.  (2mks)

20. State **two** practical applications of friction.  (2mks)

21. What is wrong with the statement." the mass of an astronaut in the moon is 1/6$^{th}$ his mass on earth".
     (1mk)

22. State the **two** conditions for a body to be in equilibrium.   (2mks)

23. Explain what is meant by magnetic shielding and state one application of magnetic shielding.  (2mks)

24. a)Define the following terms.      (2mks)
i)  Principal focus-

ii) Radius of curvature-

25. An object is placed 30cm from a concave mirror of focal length 20cm. Calculate. i) The image position  (2mks)

      ii) The magnification        (2mks)

26. State **one** advantage and one disadvantage of using a convex mirror. (2mks)

**NAME ………………………..ADM NO………CLASS……**

# GEOGRAPHY

**INSTRUCTION TO STUDENTS**

**Write your name and admission number in the spaces provided above.**

**Attempt all questions**

**All your answers must be written in the spaces provided below each question.**

a) Define Geography                                                         (1mk)

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b) Draw a well labeled diagram to show the centrality of geography          (4mks)

2.  a) Give two reasons for the shape of the Earth                  (2mks)

b) State three characteristics of sedimentary rocks                      (3mks)

3. a) What is the longitude of city Y whose local time is 8.00am, when the local time at green

which meridian 0° is 12.00 noon?                                   (2mks)

b) Give three characteristics of the Inner core of the earth                    (3mks)

4.      (a).      (i) Differentiate between faulting and folding.                    (2mks)

(ii) Draw a well labeled diagram to show the parts of a normal fault.          (5mks)

(b)          (i) Describes the formation of Rift Valley by tensional forces by use of well labeled diagram.

(7 marks)

(ii) Explain three significance of vulcanicity to Human activities. (6mks)

5a (i) differentiate between weather and climate. (2mks)

(ii) Explain four factors that influence climate. (8mks)

**FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657**

b) Explain two effects of climate change on the physical environment. (4mks)

6. Study the map of Kitale provided below and answer the questions that follow:-

a)  i) Convert the linear scale on the map into a representative fraction (show your working)

(3mks)

ii)  Name the districts covered in the map                          (3mks)

iii) Calculate the area covered by Kitale township                      (2mks

b)        i) What is ITCZ?                                          (2mks)

ii)  State four  characteristics of the Equatorial climate                (4mks)

c)        You are to carry out a field study in the Rift Valley

Outline your preparation                                (4mks)

What three other fault features would you study besides the rift valley. (3mks)

State one hypothesis of your study                                  (1mk)

Give three  follow up activities you would carry out                (3mks)

7. a (i) Differentiate between direction and bearing.                             (2mks)

ii) State two traditional methods used to show direction on maps.                 (2mks)

b      (i) Explain four uses of maps.        (4mks)

(ii) State three marginal information a good map must have.      (3mks)

c) List three ways used to locate places on a map.      (3mks)

8 a (i) Define photograph.                                                    (2mks)

    iii) State 3 types of ground photographs.      (3mks)

b   (i) List three types of graphs used for statistical presentation.                (3mks)

  (ii) Explain two advantages of comparative line graph.                         (2mks)

  iii) Explain two disadvantages of a comparative bar graph.                     (2mks)

# NAME: ……………… ADM NO: …………. CLASS: ….
# FORM TWO HISTORY

**Answer all the questions in the spaces provided.**

**SECTION A: (40 MARKS)**

**Answer all the questions from this section.**

1. Name two sources of history of Kenyan communities during pre-colonial period.   (2 mks)

2. Identify three similarities between early agriculture in Mesopotamia and Egypt.    (3 mks)

3. State two reasons why the Portuguese were able to conquer the coastal towns by 1500AD.(2 mks)

4. State two ways in which mission stations in Kenya promoted to the spread of Christianity.(2 mks)

5. Give two reasons that can make a registered person to loose citizenship in Kenya.  (2 mks)

6. Identify three ways in which education system in Kenya promotes National unity  (3 mks)

7. State three ways in which poor transport systems have contributed to food shortage in Africa.
(3 mks)

**FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657**   46

8. Give four effects of telecommunication in modern society.   (4 mks)

9. Name any two early sources of energy.     (2 mks)

10. Give any three limitations of using fire and smoke signals in communication.  (3 mks)

11. State three roles of tuaregs in Trans-Saharan trade.    (3 mks)

12. Identify the two examples of regional trade.     (2 mks)

13. Identify any two factors that may limit national unity in Kenya.   (2 mks)

14. Give two reasons why the Portuguese build Fort Jesus.     (2 mks)

15. State two factors that made the Akamba to participate in long distance trade during 19th century.

(2 mks)

16. Identify the three species of homo sapiens. (3 mks)

**SECTION B: (30 MARKS)** **Answer any two questions.**

17. (a) Identify five ways in which slaves were acquired during Trans-Atlantic trade. (5 mks)

(b) What were the results of Trans-Atlantic trade in West Africa? (10 mks)

18. (a) What factors made early man to domesticate crops and animals. (3 mks)

(b) Explain the causes of food shortage in third world countries. (12 mks)

19. (a) Why did the industrial revolution take place in Britain ahead of other European countries? (5 mks)

(b) Explain five ways in which development of iron technology affected African communities. (10 mks)

# FORM TWO: CRE
## NAME…………………...ADM…….CLASS……

i.      State six effects of the Bible translation. (6mks)

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ii.     Identify the idolatry practices during the time of Elijah.                    (6mks)

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iii.    Outline the factors that contribute to harmony and mutual responsibility in the African community.
(6mks)

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iv.     Outline the Old Testament concept of the Messiah as fulfilled in the New Testament. (6mks)

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v.      Describe the annunciation of the birth of john the Baptist to Zachariah. (luke 1:5 – 25)

(6mks)

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vi.     Outline four preaching's of John the Baptist. Luke 3: 1- 20)                    (4mks)

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vii.    Give reasons why Jesus accepted to be baptized and yet He was sinless.                    (6mks)

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viii.   Identify the temptations that young people face in Kenya today.                    (6mks)

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ix.    Outline reasons why Jesus was rejected at Nazareth, His home town. (luke 4: 16 – 30)

(6mks)
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x.    Relate the healing of the man with an evil spirit. (Luke 4: 31- 37)                    (6mks)

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xi.    State the lessons Christians learns from the call of the first disciple.                    (6mks)

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xii. State six teachings of Jesus on the qualities of a true discipleship from the sermon on the plain.
(6mks)

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# COMPUTER STUDIES

NAME:…………………………….. DATE:………………

CLASS:…………………… ADM NO……………..

**INSTRUCTIONS TO CANDIDATES**

## Answer all questions in spaces provided

1. The cost of a computer is one of the key factor to consider when buying one. State the factors that determine the price of a computer (3mks)

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2. State any three advantages that flat screen displays have over the conventional cathode Ray Tube displays. (3mks)

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3. State any three characteristics of the Random Access memory (3mks)

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4. Name any two types of optical scanners (1mk)

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5. What are the two main functions performed by UPS (2mks)

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6. State the purpose of registers in a computer system (1mk)

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7. A company has decided to computerize their operations. They have decided to purchase packages instead of developing their own programs. Give three advantages and two disadvantages of this

approach (5mks)

Advantages

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Disadvantages

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8. A school has bought a computer system. The hardware items supplied include:

A 800MHZ processor, 640MB of RAM, a sound card, speaker, a monitor, a keyboard, a 12GB hard disk, a floppy disk drive, a CD-Read/write drive, a mouse a modem, an inkjet printer and a joystick. The software supplied include: an operating system, A BASIC interpreter and the following packages:

spreadsheets, graphics, word processor, art, database and games.

i. List three input devices from the given specification (3mks)

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ii. Explain the meaning of the following;

iii. 800MHZ (1mk)

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iv. 640 MB (1mk)

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   v.     12 GB                                                          (1mk)

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   vi.    Some of the students in the school use the computer to do the homework.

    Name the packages used to:

        j)   Do calculations and drawing graphs                       (1mk)

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        k)  Write an essay                                        (1mk)

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        l)   Make poster                                          (1mk)

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   vii.   Students enjoy playing noisy computer games

   V.     Which two hardware items needed are to produce sound?       (2mks)

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   VI.    Which input device is only used for playing games             (1mk)

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a) What is thesaurus?                                    (2mks)

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b) Distinguish between auto complete and auto correct feature?           (2mks)

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c) State and explain any two text alignment features              (4mks)

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d) List two sources of graphics that can be used in Ms Word                     (2mks)

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20. State three examples of electronic word processors                     (3mks)

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21. Outline any three main features that make word processors popular programs.  (3mks)

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22. Give three example of special-purpose computers                     (3mks)

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23. Give three comparisons of the traditional method of typing a document on a Typewriter against using a word processor        (6mks)

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24. List and describe four elements of computer system                    (4mks)

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25. a) Define proofreading                                                (2mks)

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b) Give four ways of proof reading a document in MS word                  (4mks)

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26. i) What is a warranty?                                                (2mks)

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ii) State four qualities of a good warranty cover                         (4mks)

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27. Differentiate between the following.

   j)   Disk formatting and partitioning                         (2mks)

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   k)   Compressing and defragmentation a disk                    (2mks)

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28. Explain why a computer room must;

   i.      Have good ergonomics                                           (2mks)

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      …………………………………………………………………………………………………………………………

   ii.     Be well ventilated                                             (2mks)

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   iii.    Have none-water based fire-extinguisher                 (2mks)

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29. a) Explain three types of computer disks (CDs)                 (3mks)

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   b) Cherotich bought aDVD-double layer to back up her files from a laptop. Given that the capacity of the DVD is 8.5GB, calculate the number of CDs-Rs, she would have bought if the double layer was not

available                                       (4mks)

   c) Explain the meaning of WORM in reference to optical storage       (2mks)

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30. a) Mugabe tried to retrieve a file from the computer but did not appear as expected. State three possible causes for this.      (3mks)

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b) With an aid of a diagram, explain the different between an analogue signal and a digital signal

(4mks)

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c) Give three reasons why a mobile phone is regarded as a computer            (2mks)

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# NAME: …………………………...… ADM NO:………
# CLASS: …........

# HOME SCIENCE

<u>**INSTRUCTIONS TO CANDIDATES:**</u>

**This paper consist of two Sections A and B.**

**Answer all questions in both sections.**

<u>SECTION A</u>

*<u>Answer all the questions in this section</u>*

1.  Mention three dangers that may arise due to misuse of cosmetics.   (3mrks)

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2.  Name the three types of skin.                                                                         (3mrks)

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3.  Give three functions of teeth                                   (3mrks)

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4.  List down any three parts of a tooth that you know.                             (3mrks)

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5.  What is the difference between a burn and a scald?
(2mrks)

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6.    Mention six items found in the first aid kit.                    (3mrks)

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7.    State three benefits of home science to an individual.                    (3mrks)

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8.    What is manicure and pedicure?                    (2mrks)

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9.    Explain three ways you can use to prevent athletes foot.                    (3mrks)

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10.    Mention any two diseases associated with teeth                    (2mrks)

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11.    Explain how you would thoroughly clean your handkerchief.                    (8mrks)

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12. What are cosmetics? (2mrks)

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13. Give the meaning of the following terms:

Accessories (2mrks)

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Adolescence (2mrks)

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### SECTION B:
### Answer all the questions in this section

14. List down five practices carried out in personal hygiene in order to take care of the skin. (5mrks)

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15. State five attributes of good grooming.                                    (5mrks)

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16. Explain four practices we should avoid in order to care for our teeth.          (4mrks)

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17. Suggest four ways of preventing cuts at home.                    (4mrks)

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18. State four courses related to home science in which one can pursue at the university level.
(4mrks)

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19. State the function of the following parts of the skin:

i.  Sebaceous glands.
    (2mrks)

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ii. Blood capillaries.
(2mrks)

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iii. Nerve endings.
(2mrks)

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a. Explain three factors to have in mind while choosing clothes for a slim figure.
(6mrks)

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b. Describe how you would thoroughly clean your natural hair.
(8mrks)

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c. Suggest three ways of preventing young children from drowning.
(6mrks)

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    d.  Explain four points on importance of the skin to our bodies.
        (8mrks)

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*END*

# BUSINESS STUDIES

**NAME ………………………………..…**

**ADM……………CLASS…………**

## SECTION A (40 MARKS)

1.Define the following terms as applied in business studies (4mks)

a)Accounting……………………………………………………………………………………………………………

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b)Production……………………………………………...…………………………………………………………………

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c)Utility…………………………………………………………………………………………………………………………

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d)Human wants………………………………………………………………………………………………………………

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2.State five challenges encountered in the satisfaction of human wants (5mks)

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3.State four reasons as to why a poorly laid out business structure is likely to lead to failure of a business (4mks)

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4.      a)Differentiate between generic and enterprise competition (2mks)

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b)Classify each of the following into generic or enterprise competition (3mks)

| ACTIVITY | FORM OF COMPETITION |
|---|---|
| A coffee seller competing with a tea seller | |
| A television station competing with a radio station in enterpreneuring customers | |
| Kenya Literature Bureu competing with longhorn publishers in book selling | |

5.      a)Differentiate between consumer goods  and capital goods. Give an example in each case.(4mks)

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……………………………………………………………..………………………………………………………………… b)Define

the term opportunity cost (2mks)

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………………………………………………...………………………………………………………………………… c)Complete the table below (4mks)

| Activity | Form of utility |
|---|---|
| Delivering milk to a customer | |
| Making uniform to a student | |
| Keeping savings in a bank | |
| Selling books to a student | |

6.State four components of business studies (4mks)

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7.List down four factors of production and the reward for each (4mks)

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8. Identify by use of a tick (√) whether the following resources are renewable or non renewable (4mks)

| Resource | Renewable | Non- renewable |
|---|---|---|
| Wood | | |
| Natural gas | | |
| Soda ash | | |
| Aluminium | | |

## SECTION B (30MKS)

9.State six characteristics of labour as a factor of production (6mks)

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10.Differentiate between division of labour and specialization (4mks)

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11.Discuss five categories of goods and services produced in an economy (10mks)

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12.a)Name two categories of tertiary level of production (2mks)

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b)State five characteristics of economic resources(5mks)

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c)Name three external environments likely to affect operations of a business (3mks)

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NAME:…………………...ADM NO.......... CLASS...........

**443/1**
**AGRICULTURE FORM TWO**

## INSTRUCTIONS TO CANDIDATES:

.       *Answer ALL the questions*
I.      *Answers should be written in the spaces provided*
 1. a) Give the meaning of the following terms.

i)      Plantation farming

        (1mk)

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ii)     Large scale farming

        (1mk)

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 (b)    Give two reason why ranching is important in the arid and semi- arid areas of Kenya.

        (2mk)

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2.Name **two** processes through which carbon is returned to the atmosphere in the carbon cycle
(2mk)

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3. Name **two** methods of layering.
(2mk)

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4. A farmer is to apply a compound fertilizer 20-30-0 on a vegetable plot measuring 5m long by 4m wide at the rate of 200kg/ha. Calculate the amount of fertilizer the farmer requires for the plot (show your working).
(3 marks)

5. State **four** advantages of drip irrigation. (4 marks)

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6. Study the diagram below then answer the questions that follow:
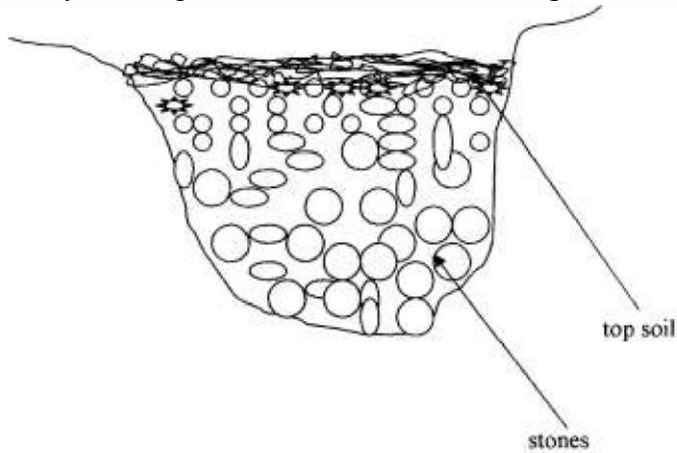


a) Identify the method of drainage above. (1mk)

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b) State other **three** methods used to drain swampy areas. (3mks)

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c). Give **four** importance of drainage. (4mks)

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7.  State the correct use of each of the following tools.
    (2mks)

    a)  Tin snip
………………………………………………………………………….........………………

    b)  Cold chisel
……………………………………………………….......…………………………………

8.  Give **two** ways in which agriculture offer employment.                          (2
    marks)

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9.  Distinguish between minimum tillage and sub-soiling as used in agricultural production
    (2mks)

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10.  Name **three** types of farm records that a sheep farmer should keep
     (3mks)

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11. Name **three** vegetative materials used in propagation of pineapples
    (3mks)

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12. Give **three** disadvantages of mulching in crop production                          (3
    mks)
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13. State **four** factors that influence spacing in crops.                                   (4
    marks)
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14. State **four** positive effects of high temperatures on crop production.
    (4mark)

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15.  Give **four** ways of water harvesting in a farm.                                                    (4 marks)

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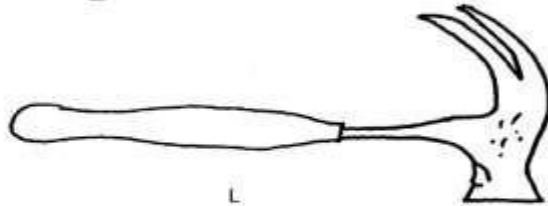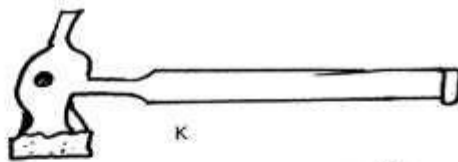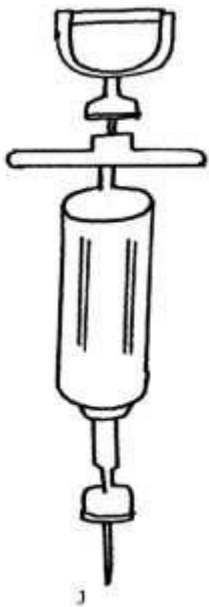
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16.  Identify the tools and equipment drawn below.

i) Identify tools/equipment J, K and L                                    (3 mks)

   J.................................................................................................................................................
   ...

    K................................................................................................................................................
   ....
    L................................................................................................................................................
   ...

ii) State the use of J and K

   (2mks)

   J.................................................................................................................................................
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   K.................................................................................................................................................
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iii) Give **one** functional similarity between K and L.                    (1mk)

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iv) Give **two** maintenance practices that should be carried out in too J.

   (2mks)

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17. Explain **six** management practices that can be carried out by a farmer to maintain soil fertility on his
farm.           (12 marks)
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walimuepublishers@gmail.com

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# FOR MARKING SCHEMES
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