FINE TUNE SERIES ALL FORM 3 EXAMS

SET TWO

By Madam Mariam

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For more:

- Friendly high school & primary
 Notes
 - Frimary-secondary school exams
- # 2020 updated schemes of work (primary-secondary) # All KASNEB

motes (CPA, CICTCIFA, CS, ATD, ICT &IT)

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FOR ANSWERS, CONTACT/WHATSAPP/SMS-0746711892

101/1

ENGLISH

PAPER 1

(FUNCTIONAL SKILLS)

TIME: 2 HOURS

FORM THREE

ENGLISH P1

INSTRUCTIONS

- 1. Write your name index number in the spaces provided.
- 2. Answer all questions in this paper
- 3. All answer must be written in the spaces provided in this question paper

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM	SCORE
1	20	
2	10	
3	30	
Total Score	60	

1.	You are a young in	vestigative journalist;	you've just visited a	welfare organization
that re	ceived	funds from a donor.	The organization he	owever feels that the
funds	can't suffice their p	lans and therefore ap	peals for more fund	s from the donor.
Write a	a report.			
	•••••			

2. CLOZE TEST

(10mks)

Fill in each blank space in the following passage with a suitable word.

ed but you are
nis, a woman's
the
vet6
a dilemma that
ather Kenya's
Education
enyans? Ability
l system.

3. ORAL SKILLS

(30mks)

a) Read the oral narratives below and answer the questions that follow.

Once upon a time, a woman who was pregnant and about to give birth went to the bush to collect firewood. On went to the bush to collect firewood. On reaching the bush, she suddenly gave birth to a baby boy who was so deformed and ugly that she decided to exchange it for another baby. A normal – looking one she found abandoned and crying in a nearby thicket. She didn't know that this baby was a spirit called Ekipie by the Turkana.

The woman returned home with the baby and since it was evening time, she had to milk the cows. So as usual, she took three gourds and filled them with milk from the numerous cows they owned. She put the milk containers in her hut where her

eldest daughter was minding the new baby. Then she went out again to complete some of her other chores.

Later, when she returned to the hut where she had left the baby, she found to her dismay, that there was no milk at all. All the three guards were empty. Surprised, and shocked, she questioned her daughter about the milk and what had happened to it. The girl replied;

"The baby has drunk it all".

"I cant belief such a tale. It's ridiculous for you to say such a thing", She scolded her daughter.

"Don't tell lies. Admit you are just imagining things. Who drank the milk?"

The woman persistent in questioning her daughter in questioning her daughter who swore it was the baby.

Strange as it may sound to you, the same thing happened again the following day and a several consecutive days. The woman grew puzzled and confused. Her husband too began to complain about the non – availability of milk in the household. Now, the woman had no alternative but to tell him the truth.

Questions

i) What would you do to prepare your audience to listen to the above story?(2mks)

	ii)	What two things would indicate to you that the audience is following the
story?	(2mks)	
	•••••	
	•••••	
	•••••	
	•••••	
	••••••	
	iii)	What two oral devices would you use in narrating this story?
	•••••	
	•••••	
	•••••	
	•••••	
	•••••	
	iv)	How would you perform the reply of the girl" The baby has drunk it all"
	•••••	

b)	Provide homophones for the following words.		
	i)	Know	
	::\	Coope	
	ii)	Scene	
	iii)	Sight	
	lv.		
	.V.		
Ewe			
••••			
c)	Explai	n the difference in meaning between the following sentences.	

		(2mks)
	i)	The thief entered this house
	•••••	
	ii)	The thief entered this house
d)	In the 1	following paragraph, the writer has utilized one of the genres of oral
		opress his feeling about the subject. Answer the following question
based	on it.	
	The pr	ince was <u>their</u> , <u>idol</u>
	Throug	gh he was enjoying the <u>peas.</u>
	He was	s bored and need parrying,
	The re	gency took the <u>queue</u>
	To enj	oy from the generous <u>air,</u>
	The kir	nd <u>sun</u> of the kingdom.

(Karnabomain)

the int		ce the underlined words with those that have the same sounds to bring out surface/ literal meaning. (3mks)
	.\	
	v)	
	·	
e) Our Bo		Bob owes our bob. If your Bob doesn't give our Bob the bob owes our Bob, give your Bob a bob in the eye?
	i)	Identify the genre above (2mks)
	ii)	Give one characteristic feature of the genre above. (2mk)

.....

f) Mrs. Jabali of Upendo High School asked her class to decide which of the set books in their syllabus they should perform for the rest of the school. Read the form Four champions discussion below and then answer the questions that follow.

Mrs Jabali: Rose, Would you lead the discussion?

Rose: Aha,Ok. The question is, What play should we pick for our class

play?

Does anyone have suggestions? Mercy?

Mercy: I suggest we do an Enemy of the people.

Sharon: How about shreds of Tenderness?

Rose: No, I dislike Shreds of Tenderness Passionately.

Kaunda: I love the River Between.

Mercy: No way! That would make a stupid play! let's do An Enemy of the

people.

Rose: Sasha!

Sasha: I have never watched Shreds of Tenderness but

Joy: It is a super barb play.

Rose: Joy, Please let Shasa finish then it is your turn.

Joys: Sorry

Sasha: Anyway, I have never seen a play on An Enemy of the People but I

have watched a movie and I loved it.

	Rose:	Lilian	
good p	Lilian: lay.	I just wanted to say that I like think Shreds of	of Tenderness is really
	Rose:	Naom?	
	Naom:	I saw the Movie An Enemy of the people too	o, and I really liked it. I
loved tl	ne part	where Catherine storms the.	
	Rose:	Excuse me, Naom, But we should talk abou	t that after the
discus	sion is over. Do	es anyone have any othe	er suggestions? No?
Ok.Mer	cy proposed A	n Enemy of the	People, Sharon like
Shread	s of Tendernes	ss and Kaunda wants the River Between.	
Has an	ybody seen or	read all three? No? Ok. I suggest that we rea	d them and then
		continue the discussion in a couple of days	. Is that okay with
everyo	ne? Ok.	The discussion is over.	
i)	In terms of ef	fective communication identify five things so	ome members of form
four ch	ampions	did wrong in the discussion.	
		(5mks)	
::\	Montion throa	a annote an atimusta displayed by some mon	nahaya duying tha
ii) discus:		e aspects or etiquette displayed by some me	mbers during the
aiocus	Jon. (Jinks	,	

FORM THREE APRIL EXAMS 2020 ENGLISH PAPER TWO

101/2 ENGLISH PAPER 2

TIME: 2 HOUR

FORM THREE ENGLISH APRIL EXAM -2020

101/2 ENGLISH PAPER 2 TIME: 2 HOUR

Instructions to candidates.

• Answer ALL the questions only

For Examiners Use Only

Question	Maximum score	Candidate's score
1.Comprehension	20	
2.Literary Appreciation	25	
3.Poetry	20	
4.Grammar	15	
Total score	80	

1. Read the passage below and answer the questions that follow (20mks)

WORRY has completely defeated me. My mind was so confused and troubled that I could see no joy in living. My nerves were so strained that I could neither sleep at night nor relax by day. My three young children were widely separated, living with relatives. My husband was in another city trying to establish a law practice. I felt all the insecurities and uncertainties of the post –war readjustment period.

I was threatening my husband's career, my children natural endowment of a happy, normal home life, and I was also threatening my own life. My husband could find no housing, and the only solution was to build. Everything depended on my getting well. The more I realized this and the harder I would try; the greater would my fear of failure. Then I developed a fear of planning for any responsibility. I felt that I could no longer trust myself. I felt I was a complete failure.

When all was darkest and there seemed to be no help, my mother did something for me that I will never forget or ceases being grateful for. She shocked me into fighting back.

She upbraided me for giving in and for losing control of my nerves and my mind, she challenged me to get up out of bed and fight for all I had. She said I was giving in to the situation ,fearing it instead of facing it, running from life instead of living it.

So I did start fighting from that day on. That very weekend I told my parents they could go home, because I was going to take over; and I did what seemed impossible at the time. I was left alone to care for my two

younger children. I slept well. I began to eat better, and my spirits began to improve.

A week later when they returned to visit me again, they found me singing at my ironing. I had a sense of well -being because I had begun to fight a battle and I was winning. I shall never forget this lesson...... if a situation seems insurmountable, face it! Start fighting! Don't give in.

From that time on I forced myself to work, and lost myself to work. Finally I gathered my children together and joined my husband in our new home. I resolved that I would became well enough to give my family a strong, happy mother. I became engrossed with plans for my children, plans for my husband, and plans for everything except for me. I became too busy to think of myself. And it was that the real miracle happened.

I grew stronger and stronger and could wake up with the joy of well - being , the joy of planning for a new day ahead, the joy of living. And although day of depression did creep in occasionally after that, especially when I was tired, I would tell myself not to think or try to reason with myself on those days and gradually they became fewer and fewer and finally disappeared.

Now, a year later, I have a very happy, successful husband, a beautiful home that I can work in sixteen hours a day, and three healthy, happy children and for myself, peace of mind.

(Adapted from "How to stop

worrying and start living")

Questions

(a) Give five effects of worry on the writer. (5mks)
(b) What do you think was the cause of the writer's worry.(2mks)
(c) Describe the element of irony i n the writer's life. (3mks)
(d) How does the writer get out of this terrible situation? (2mks)
(e) What steps does the writer undertake to overcome the problem? (4mks)

(f) In a paragraph of about **60 words** explain the benefits of the writer's efforts to overcome worry. (4mks)

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

However, the notion that he was about to hand over his own daughter to a gangster continued to **gnaw** at the conscience of Ole Kaelo relentlessly. He felt guilty, especially when he recalled the atrocities that were known to have been committed by Oloisudori over the years. But another voice told him quietly that he was being foolish and unreasonable to question his own conscience over the matter of Oloisudori, for he was just one among many who were enjoying the fruits of their labour. And it was hardly anybody's business to know how honest that labour was. After all, the small voice reassured him tauntingly, those who committed bigger crimes such as Goldenberg and Anglo-leasing, were still enjoying the 'fruits of their labour.' Had they not invested the yields of their ill-gotten money in housing estates, in shares, in import and exports in tourism, in transport and in other trades, just as Oloisudori had done?

When he went to bed later that evening, he remained awake for many hours pondering over those disturbing thoughts that went through his mind fleetingly, like water that churned violently in a turbulent sea. He thought of Oloisudori's impending visit and his intended marriage to Resian. He knew the success of failure of the event would determine the fate of his business. Even his continued

ownership of that house where he and his family lived, depended on the outcomes of that event. Should Oloisudori fail to get Resian and recall the loan he had extended to him to buy that house, **he was done**. And knowing Oloisudori, he could very easily draw the rug from beneath his feet, leaving him vulnerable to all kinds of vagaries. And the thoughts gave him anxious moments.

At dawn when sleep overtook him, Ole Kaelo had a pleasant dream. Resian had consented to Oloisudori's proposal. After Oloisudori reported that to him, he was greatly pleased and relieved. His wife was rapturous. Although they were astonished at the turn of events, they were relieved to know that they would not have to live with the guilt of having forced their daughter to get married. What a wise child his once hardheaded daughter had turned to be after all! And how devious! After all those years of sullenness, awkwardness and tactlessness, she had finally brought relief to their life and ushered in a period of peace and tranquility. But then, it was just that. A dream!

Questions

a).Place the excerpt in its **immediate** context. (4mks)

b).Discuss three **major issues** in this excerpt.

(6mks)

c).Discuss two character t raits of ole kaelo in this excerpt. (4mks)
d)."and the thoughts gave him anxious moments" (add a question tag .) (1mk)
e).Discuss any three aspects of style in this excerpt. (6mks)
f).Explain the meaning of the following expressions from the excerpt. (4mks) (i). Gnaw

	(ii). Pondering
	(iii). Impending visit
	(iv). He was done
3 . Rea	ad the following oral poem and then answer the questions which follow
	O elephant possessor of a saving- basket full of money
	O elephant, huge as a hill, even in a crouching posture,
	O elephant, enfolded by honour:demon, flapping fans of war.
	Demon who snaps tree branches into many pieces and moves on the
forest	farm,
	O elephant, whom ignores 'I have fled to my father for refuge'.
	Let alone 'to my mother' Mountains Animal, Huge
	Best who tears a man like a garment and hangs him up on a tree,
	The sight of whom causes people to stampede towards a hill of safety,
	My chant is a salute to the elephant ,Ajanaku who walks with a heavy
traad	

tread,

Demon who swallows palm-fruit bunches, whole, even with the spiky pistil –cells,

O elephant, praise named, Laaye, massive animal blackish – grey in complexion,

O elephant, who single-handed cause a tremor in a dense tropical forest,

O elephant, who stands sturdy and alert, who walks slowly as if reluctantly,

O elephant, whom one sees and points towards with all one's fingers.

The hunters boast at home is not repeated when he really meets the elephant.

The hunters boast at home is not repeated before the elephant,

Ajanaku looks back with difficulty like a person suffering from a sprained neck.

The elephant has a porter's – knot without having any load on his head.

The elephant's head is his burden which he balances,

O elephant, praise named, Laaye, O death, please stop following me.

This part and parcel of the elephant's appellation.

If you wish to know the elephant, the elephant who is a veritable ferry –man.

The elephant whom honuor matches, the elephant who continually swings his trunk.

His upper fly-switch., It's the elephant whose eyes are veritable water -jars,

O elephant, the vagrant par excellence.

Whose molar teeth are as wide as palm-oil pits in Ijesaland,

O elephant, lord of the forest, respectfully called Oriiribobo

O elephant whose teeth are like shafts, One tooth of his a porter's load,

O elephant fondly called Otiko, Who has a beast- of burden's proper nock,

O elephant, whom the hunter at other times aces face to face.

O elephant, whom the hunters at other times seas from the rear.

Beast who caries mortars and yet walks with a swaggering gaint.

Primeval leper, animal treading ponderously.

Questions

(a) What **type o**f oral poem is this?

(2mks)

(b) Identify, illustrate and give the effect of any **three** features of style used in the poem.(6mks)

(c) How is the elephant portrayed in the poem? (2mks)
(d) What is the persona's attitude towards the elephant? (2mks)
(e) Identify any two _economic activities of the community from which this poem is derived. (4mks)
(f) Identify the main theme of this poem. (2mks)
(g) Explain any two problems you may encounter when collecting material for this genre. (2mks)
4. Grammar
a). Rewrite the following sentences as instructed

this

(2mks

1. My examination results were released only after I had cleared the fee balance. (Begin: Not until)
2.If I were the Minister for National Security, I would ensure tighter security checks at the borders.
(Begin: Were I)
3.They had handled the case so carelessly that we were not satisfied. (Begin So)
4. "I shall expect to see you next Wednesday," the teacher told the student. (Write in reported speech.)
b).Use the correct form of the word in brackets in the sentences that follow. (3mks) i. The modern world today has manyforms of communication (sophistication)
ii The gas was stored in acontainer (pressure) iii. Do not wait for the bus, it comes to this town very(regular).
 c). Give the meaning of the underlined <u>idiomatic expression</u>. (2mks) (i) The teacher asked him to stop <u>beating about the bush</u>.
(ii) The politicians asked them to cross the bridge when they reach it.

(2mk	•	hoos	e the correct pronoun in the following sentences.	
`		(i)	She knew allbout my friend and(I/me)	
		(ii)	What would you do if you are? (she/her)	
choic	e f <i>(fev</i>	rom:	ete each blank space in the following sentences with appropriat ew, little ,a little, some)	:e
	(i)	If the	ere is tea left in that flask, I would like to have	
	(ii)	Sinc enou	e animal proteins are very expensivepeople e ugh	at
(2ma	,	•	ace the underlined word with the correct phrasal verb .	
	1.	The c	class teacher promised to <u>solve</u> the problem. (sort)	
	2.	He trie	ed all his dirty tricks on us but he did not <u>succeed</u> . (come)	
	3.	The n	nurse couldn't <u>tolerate</u> the noise	
	4.	The m	nayor assumed that the problem had been <u>got rid of</u> .	
<i>(</i>		.Rewr	ite the sentences below as to remove gender bias .	
(1mk	s)	1. Th	e headmistress advised her girls to keep off drugs.	
		2. Th	ne father left his sons and daughters a big estate.	

FORM THREE APRIL EXAMS 2020 ENGLISH PAPER THREE

ENGLISH PAPER 3 FORM 3 APRIL EXAMS 2020 TIME 2&1/2HRS

1. COMPULSORY: IMAGINATIVE COMPOSITION (20 MARKS)

Either,			
a)	Write a story beginning with the words:		
I had n	not thought it was a big problem until I got involved		
Or			
b)	Discuss the measures you would take to curb flooding in our Kenyan urban a	areas.	
2. The (Compulsory Set Text.		
"Self-interest is a vice that whoever engages in it is bound to fail." Using Blossoms of the Savannah, write an essay to support this assertion. (20 marks)			
	<u>E COMPULSORY SET TEXT</u> <u>DOLL'S HOUSE</u> by Henrik Ibsen (2	20	
	arks) all, trust none." Show how this is portrayed using illustrations from the	play,	
^			

FORM THREE APRIL EXAMS 2020 KISWAHILI PAPER ONE

102/1

KISWAHILI

KIDATO CHA TATU APRILI 2020

KARATASI YA 1

INSHA

MUDA: SAA 1 34

MAAGIZO

- a) Andika insha mbili. Insha ya kwanza ni ya lazima.
- b) Kisha chagua insha nyingie moja kati ya hizo tatu zilizobakia.

- c) Kila insha isipungue maneno 400
- d) Kila insha ina alama 20.
- e) Kila insha ni lazima iandikwe kwa lugha ya Kiswahili.

1. Lazima.

Wewe umehitmu shahada ya uzamifu kutoka Chuo Kikuu cha Malishoni. Umetuma barua ya kuomba kazi katika taasisi moja inayoshughulika na uhifadhi wa mazingira. Andika tawasifu utakayoiwasilisha kwa wanajopo.

- 2. Fafanua umuhimu wa viranja shuleni .
- 3. Tunga kisa kitakachodhihirisha maana ya methali ifuatayo: Uzuri wa mkakasi ndani kipande cha mti .
- 4. Andika insha itakayoanza kwa maneno:

Siku hiyo nilitoka nyumbani nikiwa nimezongwa na mawazo mengi baada ya mkasa huo.

KISWAHILI KARATASI YA PILI

KIDATO CHA TATU KARATASI YA PILI

<u>UFAHAMU, UFUPISHO, MATUMIZI YA LUGHA NA ISIMU JAMII</u>

MUDA: SAA 2 ½

AGIZO

Jibu maswali yote katika nafasi zilizoachwa.

KWA MATUMIZI YA MTAHINI PEKEE

SWALI	MADA	UPEO	TUZO
1	UFAHAMU	15	
2	UFUPISHO	15	
3	MATUMIZI YA LUGHA	40	
4	ISIMU JAMII	10	
	JUMLA	80	

1. UFAHAMU (ALAMA 15)

Matumizi ya sheng' yameshamiri sana nchini Kenya hata rniongoni rnwa vijana. Ni kilugha ambacho kinakisiwa kuzuka katika miaka ya 60 na 70 katika makazi ya rnashariki mwa jiji la Nairobi kama vile Kaloleni, Mbotela, Bahati na kadhalika.

Kwa sasa ni kilugha kilichoenea kwingi nchini Kenya na kuwa kitambulisho cha takriban vijana wengi. Wataalam rnbalimbali wanabainisha nadharia mbalimbali kuhusu chanzo cha lugha hii. Kuna nadharia mbili kuu kuhusu asili ya lugha ya Sheng; kwamba kilugha hiki kiliibuka kutokana na wahuni na wakora jijini Nairobi ambao lengo lao lilikuwa kuwasiliana kwa siri. Nadharia nyingine ni kuwa kilichipuka kutokana na vijana ambao walizua lugha ya kuwasiliana baada ya

uhuru kwa sababu walikichukia Kiswahili ambacho walikiona kama lugha ya uboi.

Dhana hizi kwa muda mrefu, zimeathiri mitazamo kuhusiana na kilugha hiki. Kwa sasa ni kilugha ambacho kinasambaa katika sehemu mbalimbali za Kenya na watu wa matabaka mbalimbali wanakitumia. Kilugha hiki kimeanza kuashiria uhalisia mkubwa wa maisha ya kisasa, zaidi katika jamii ya Wakenya. Aidha, sheng imejitanzua kutoka hali ye kuwa kilugha cha maongezi pekee na sasa kinatumiwa katika baadhi ya vitabu, hata waandishi wa vitabu wameanza kukitumia, kwa mfano katika miaka ya 80, David Mailu katika kitabu chake 'Without Kiinua Mgongo alitumia sheng.

Katika siku za hivi karibuni, Riwaya ya 'Kidagaa Kimemwozea' iliyoandikwa na Ken Walibora kilugha cha sheng kimepewa nafasi kama kitambulisho cha vijana kupitia kwa mhusika DJ Bob.

Vilevile kumezuka vyombo vya habari kama redio, mfano idhaa ya Ghetto, redio ambayo inaendeleza mawasiliano kwa matumizi ya sheng. Kuna vipindi na matangazo ya kibiashara katika runinga ambayo yanaendelezwa kwa sheng. Kwa mfano katika gazeti a Taifa Leo, kuna ukumbi wa 'Mchongoano' ambao umekuwa ukiendelezwa kwa Sheng.

Nchini Kenya ambapo asilimia 60% ya idadi ni vijana, Sheng imetokea kuwatambulisha vijana. Katika enzi hii ya **Teknohama**, wanaomiliki vyombo vya habari na sekta nyingine za biashara wamegundua kuwa matumizi ya Sheng ndiyo njia mwafaka zaidi ya kulifikia soko kubwa la vijana kwa ajili ya kueneza matangazo ya bidhaa na huduma za kibiashara. Kwa hivyo, Sheng imekuwa

daraja la kuwafikia na kuwavutia vijana.

Hata hivyo, kwa upande mwingine matumizi ya Sheng yamelaumiwa na walimu wengi katika shule za msingi na zile za upili kuwa ni sababu mojawapo kuu ya kushuka kwa matokeo ya lugha ya Kiswahili na Kiingeneza miongoni mwa wanafunzi. Sheng imelaumiwa kwamba inasababisha wanafunzi kutozingatia mafunzo ya kanuni za sarufi na tahajia au maendelezo. Wataalam wanadai kuwa ni**msimbo** ambao hauzingatii sheria za sarufi na tahajia kwa sababu zizizofahamika, kwani ingawa muundo wake wa kisarufi hushahabiana na ule wa Kiswahili, Sheng hupuuza sarufi ya Kiswahili katika matumizi yake.

Ingawa sheng imekuwa ikipigwa vita, kuna wataalam ambao wana mtazamo kwamba juhudi hizo haziwezi kufanikiwa kwani sheng ni chombo cha mawasiliano miongoni mwa vijana na kwa hivyo ma umunimu wake ambao hauwezi kufumbiwa macho. Wanasema kuwa ni chombo ambacho kinafumbata hisia na mshikamano wa kizazi kipya kama ilivyojitokeza katika kauli mbiu ye mgombeaji urais mwaka wa 2012,Tunawesmake.

Katika hali ambapo kiwango cha ubora wa matokeo ya Kiswahili yalidorora katika mtihani wa Kidato Cha nne (KCSE) mwaka wa 2012 na kuwa asilimia 35.81 pekee yakilinganishwa na asilimia

48.82 ya mwaka 2011, sheng imekuwa ikilaumiwa kuwa ndicho chanzo cha kudorora kwa viwango vya ubora wa matokeo. Baadhi ya hao wataalamu wanasema kwamba sheng haipaswi **kuhujumiwa**,

kinachohitajika kufanywa ni kuwaelimisha vijana kuhusu mipaka ya matumizi

yake.
<u>Maswali</u>
a) Taja mada ya kifungu hiki. (Alama1)
b) Fafanua nadharia mbili zilizoeleza asili ya lugha ya Sheng. (Alama 2)
c) Eleza matumizi bainifu ya kilugha cha Sheng katika jamii ya sasa. (Alama 3)
d) Taja matokeo hasi ya matumizi ya Sheng katika jamii. (Alama 3)
e) Ni kwa nini mwandishi Walibora ameshirikisha matumizi ya Sheng katika kaz yake ya KidagaaKimemwozea. (Alama 2)

f) Eleza maana ya maneno	haya kama yalivyotumika	katika kifungu hiki.
(Alama 4)		

i) Teknohama
ii) Kudorora
iii) Msimbo
iv) Kuhujumiwa

2. UFUPISHO

Kuna dhana nchini ambayo inazidi kuenezwa miongoni mwa vijana na usipochunga,tutakuja kujipata pabaya katika siku za usoni. Kwa kipindi cha miongo miwili hivi iliyopita, sekta ya sanaa nchini imekuwa ikiimarika kwa kasi. Kuna wasanii ambao wamefanikiwa kujiendeleza kimaisha kutokana na talanta zao lakini pia kuna wale ambao wamebaki katika hali ya uchochole, pengine kutokana na kuwa hawafahamu vyema jinsi ya kujisimamia na kutumia talanta zao kama mbinu ya kujipatia riziki. Kwa muda huo wote, vijana wengi wamejikuta wakivutiwa mno na hali ya kimaisha ya wasanhi waliobobea, hasa wanamuziki, na hivyo basi hujitosa kwenye sekta ya sanaa wakiwa na matumaini makubwa ya kuishi maisha ya kifahari.

Imefikia kiwango ambapo washikadau wa masuala ya kuendeleza maisha ya vijana, ikiwenio Wizara ya Michezo, Vijana na Utamaduni wanawekeza pakubwa kuendeleza sekta ya sanaa. Ni hapa ndipo wasiwasi unaibuka kwa kuwa huenda tukachukulia Kwamba juhudi za kuwezesha vijana kujikimu kimaisha

zitafanikiwa tu iwapo sekta ya sanaa itaimarishwa. Dhana hii ni potovu na ni sharti washikadau wazinduke, waanze kupanna mawazo yao na kuwa na busara kwenye hatua wanazochukua ikiwa wana nia ya kuwezesha vijana kujikimu kimaisha na kuchangia ukuaji wa uchumi wa taifa.

Ukichunguza kwa makini, utapata kuwa ni asilimia ndogo mno ya wanaojitosa kwenye sanaa ambao wanaweza kusemekana wana ari na kipawa cha kutosha kuweza, kuchangia ipasavyo kwenye uchumi wa kitaifa kwa kutumia vipawa hivyo. Hivyo basi, suala ibuka ni je, asilimia kubwa iliyosalia huwa wanafanya nini, na ni jinsi gani wanavyoweza kuwezeshwa wajiendeleza zaidi kimaisha? Hapatakuwa na haja ya kuwekeza mamilioni ya pesa katika kuendeleza sekta ambapo mapato yake hayatakuwa yenye faida kwa taifa.

Humu nchini tumekuwa na tabia ya kupuuza sekta zilizo muhimu sana, na matokeo yake ni kuwa tunaishia kuagiza bidhaa kutoka nje iihali tungeweza kujitengezea wenyewe nchini. Baadhi ya yale tuliyopuuza ni useremala, ushonaji wa nguo, utengezaji wa bidhaa za ngozi na hadi miaka ya hivi majuzi, kilimo kilikuwa kimezikwa kwenye kaburi la sahau miongoni mwa vUana. Ni kutokana na hali hii ambapo vijana wengi wanaochukua mikopo kutoka kwa hazina waliotengewa na Serikali huwa hawafanikiwi, kwa kuwa hakuna uwekezaji wa kutosha uliowekwa kuimarisha ujuzi wao wa kibiashara.

Kwa sasa, Serikali iko katika harakati za kuagiza vipakatalishi kutoka India. Na kumbuka vyema serikali ilivyotangaza kuwa vipakatalishi vitakuwa vikitengezwa nchini. Kwa kuviagiza kutoka mataifa ya kigeni, ni wazi kuwa hatujafikia kiwango cha kujitengezea vifaa hivyo kwa kiwango kikubwa, ingawa kuna watu kadha arnbao huagiza vipuri na kujitengezea kompyuta wenyewe. Vijana wanahitaji

kuwezeshwa katika nyanja zote, na wala sb kwa sanaa na niichezo pekee.

Iwapo tutaendelea kutoa picha ya kuwa michezo na sanaa,pekee zilizo muhimu kwa vijana, itafika wakati ambapo tutaanza hata kuagiza mboga kutoka mataifa ya nje tusipojihadhari. Bila shaka tuna nafasi ya kurekebisha mienendo yetu, na ni vyema ikiwa tutachukua hatua hiyo haraka iwezekanavyo.

<u>Maswali</u>

a)Fupisha aya tatu za kwanza kwa maneno 90-95. (Alama 8,1 ya Utiririko)

MATAYARISHO NAKALA SAFI b)Kwa kutumia maneno 70 - 75, eleza masuala ambayo mwandishi anaibua katika aya tatu za mwisho. (Alama 5, 1 ya Utiririko) MATAYARISHO

NAKALA SAFI
3. MATUMIZI YA LUGHA
a) Taja sauti mbili zenye sifa zifuatazo za matamshi. (Alama 1)
i) Mbele, wastani, tandazwa.
ii) Kati, chini, tandazwa (Alama 1)
(Alailla 1)
b) Bainisha viambishi na mzizi katika neno kunipa. (Alama 3)
c) Huku ukitoa mfano mmoja bainisha makundi matatu ya vivumishi vya sifa. (Alama 3)

i)
ii)
iii)
d)Tunga sentensi moja yenye chagizo na yambwa.
(Alama 2)
e) i) Kirai ni nini?
(Alama 1)
ii) Ainisha virai katika sentensi ifuatayo.
(Alama 2)
Walimu hao hufunza wanafunzi kwa bidii.

f) Changanua sentensi ifuatayo kwa njia ya mishale. (Alama 4)
Kitabu alichokinunua juzi kina uzuri mwingi.
g) Huku ukitoa mfano mmoja mmoja, eleza namna tatu za kukanusha hali ya KU. (Alama 3)
i)
ii)
h) Andika wingi wa ukubwa wa sentensi ifuatayo.(Alama 2)
Huyu ndiye mwanamume mwembamba zaidi.
i) Geuza
sentensi ifuatayo katika usemi halisi.(Alama 2)
Mwalimu alisema angemwadhibu mwanafunzi siku iliyofuata.
j) Andika kinyume cha sentensi ifuatayo.(Alama 1)
Mama ametoka darasani kwa haraka.

k) Kanusha sentensi ifuatayo kwa umoja. (Alama 1)
Walipochekesha watu walipelekwa ng'ambo.
l) Eleza maana tatu za sentensi ifuatayo. (Alama 3)
Wakenya hawakienzi Kiswahili kama Watanzania.
m) Andika upya sentensi ifuatayo ukibadilisha neno lililopigiwa mstari kuwa nomino.(Alama 2)
Mlachake alilewa hata akashindwa kutembea.
n) Tumia neno makini kama nomino katika sentensi. (Alama 1)
o) Sahihisha sentensi ifuatayo. (Alama 2)
Wasee hao waliwaambia wamama wale kuwa hawakuwa na kizazi nao hata baada yakuwatusi vibaya.

p) Tunga sentensi katika wingi ukitumia nomino hizi pamoja na kisisitizi mwafaka. (Alama 2)
i) noti
ii) kiziwi
q) Tunga sentensi ukitumia ni kama:
(Alama 2)
i) Swali au kiulizi.
ii) Amri
r) Tunga sentensi ukitumia neno labda kudhihirisha maana zifuatazo.
(Alama 2)
i) Shaka
ii) Uwezekano.
4. ISIMU JAMII (ALAMA 10)
Utafiti wa kiisimu na fasihi unaonyesha kuwa Kiswahili ni lugha ya Kiafrika.
Fafanua.(Alama 10)

FORM THREE APRIL EXAMS 2020 KISWAHILI KARATASI YA TATU

KISWAHILI KIDATO CHA TATU APRILI 2020

102/3: FASIHI.

MUDA: 2.30

MAAGIZO:

- a.Jibu maswali manne pekee
- b.Swali la kwanza ni la lazima.
- c.Maswali hayo mengine matatu yachaguliwe kutoka sehemu tatu zilizobaki ,yaani Riwaya,Tamthilia naFasihi simulizi.
- d.Usijibu maswali mawili kutoka sehemu moja.
- e.Watahiniwa ni lazima wahakikishe kuwa maswali yote yamo na kurasa zote zimepigwa chapa sawasawa.

SEHEMU A USHAIRI (alama 20)

SWALI LA LAZIMA

USHAIRI:

Soma shairi hili kasha ujibu maswali yanayofuata.

SABUNI YA ROHO

Ewe tunu ya mtima, kwa nini wanikimbia?

Ndiwe suluhu la zama, waja wa kukimbilia,

Waja wana kutazama, madeni wakalipia,

Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Ndiwe mafuta ya roho, walisema wa zamani,
Utanunua majoho, majumba na nyumbani,
Umezitakasa roho, umekuwa mhisani,
Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Matajiri wakujua, wema wako wameonja, Nguo zao umefua, wakupata kwa ujanja, Sura zao mefufua,wanazuru kila Nyanja, Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Ndiwe mvunja mlima, onana na maskini, Watazame mayatima, kwao kumekua wa duni, Wabebe waliokwama, wainue waliochini, Ndiwe sabuni ya roho, ndiwe mvunja mlima. Ndiwe mvunja mlima, wapi kupata uwezo?
Umezua uhasama, waja kupata mizozo,
Ndiwe chanzo cha zahama, umewaitia vikwamizo,
Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Umevunja usuhuba, familia zazozana,
Walokuwama habuba, kila mara wagombana,
Roho zao umekaba, majumbani wa chinjana,
Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Nakutafuta kwa hamu, sabuni unirehemu,
Sinilipue ja bomu, sije kawa marehemu,
Niondoe jehanamu, ya ufukara wa sumu,
Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Naondoka wangu moyo, nikuitapo itika, Fulusi wacha uchoyo, tatua yalonifika, Nichekeshe kibogoyo, name nipate kuwika, Ndiwe sabuni ya roho, ndiwe mvunja mlima.

Maswali

- a) Mshairi anaongea na nani katika shairi hili? [alama1].
- b) Taja majina mengine matatu aliyopewa huyu

anayesemeshwa[alama3].

- c) Anayezungumziwa katika shairi hili anasababisha balaa gani?[alama2]
- d) Mshairi anatoa mwito gani kwa mwenziwe?[alama4]
- e) Fafanua maudhui ya ubeti wa sita.[alama2]
- f) Mbinu kadha za uandishi zimetumiwa na msanii kuwasilisha ujumbe wake. Taja mbinu zozote tatu na uzitolee mifano katika shairi.[alama3]
- g) Fafanua maana ya: sura zao 'mefufua, wanazuru kila nyanja'[alama1]
- h) Andika ubeti wa saba katika lugha nathari.[alama4]

SEHEMU B: CHOZI LA HERI[alama20]

Jibu swali la 2 au 3

- **2.**Eleza jinsi mbinu ya majazi imetawala kazi ya kisanaa ya mwandishi wa chozi la heri.[alama 20]
- 3. Jadili dhana ya chozi katika riwaya ya chozi la Heri.[alama 20]

SEHEMU C: TAMTHILIA (alama 20)

Tamthilia: kigogo

Jibuswali la 4 au 5.

- 4."Dalili ya mvua ni mawingu, lazima fume macho."
 - a) Eleza muktadha wa dondoo hili.[alama4]
 - b) Ni kitu gani kilichopelekea msemaji kutamka kauli hiyo.[alama2]
 - c) Taja sifa za msemaji.[alama6]

d) Eleza methali zingine tano zilizotumika katika tamthilia hii.[alama8]

5 a Eleza matumizi ya vipengele vya ushairikatikatamthiliayakigogo.[alama7]

b. ukombozi wa jamii yoyote unahitaji uvumilivu kupiga moyo konde .Thibitisha kauli hii ukirejelea tamthilia ya kigogo.[alama6]

c. Tofautisha kwa mifano thabiti mbinu za litifati na tadmini kama zilivyotumika katika tamthilia ya kigogo.[alama7]

SEHEMU D: FASIHI SIMULIZI. (alama 20)

Jibuswali la 6

6. Soma utungo ufuatao kasha ujibu maswali.

Ndimi mwimo mdumishaji ukoo,

Ndimi ndovu mtetemesha ardhi,

Aliyegigang vita, ukoo kiauni,

Ziliporindima zangu nyayo

E dui alinywea, mafahali na mitamba akatukabidhi.

Kwenye misitu sikuwa na kifani

Paa na hata visungura

Vilijikabidhi kwangu

Kwa kuinusatumata

Nani aliyewahi

Ngomani kunifiku?

Makoo hawakunisifu, wakalilianikaha?

Kwenye Nyanja zamichuano

Nan iangethubutu, ndoro kunipigia?

Sikuwa bwaga chini, kwaya ngumaozi, hata kabla hatujavaana?

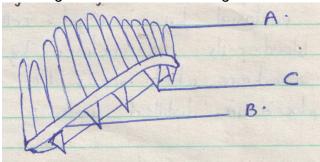
- i. Andika aina ya sifo hii na utaje sifa za kembili. (alama 4)
- ii. Bainisha shughuli mbili za kiuchumi na mbili za kijamii zinazoendelezwa n ajamii inayosawiriwa na utanzu huu. (alama 5)
- iii. Eleza mambo matano ambayo yanaweza kuzingatiwa ili kufanikisha uwasilishaji wa utungo huu. (alama 5)
- iv. Eleza faida sita za matumizi ya nyimbo katika uwasilishaji wa ngano. (alama 6)

FORM THREE APRIL EXAMS 2020

BIOLOGY PP1 231/1 FORM THREE

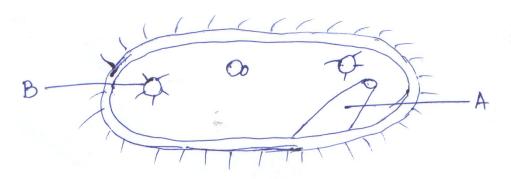
APRIL EXAMS - 2020 TIME: 2 HOURS Instructions Answer all the questions in the spaces provided

1. The diagram below is that of a gill of a fish.



- a) Name the parts labeled A and B. (2mks)
- b) State the function of part labeled C. (1mk)
- c) Explain how structure labeled A is adapted to its function. (2mks)

2.	(a) Give the products of aerobic respiration in plants and animals. (3mks)
	(b) Name two factors that affect the rate of respiration. (2mks)
3.	Explain why red blood cells burst when placed in distilled water while plant cells remain intact. (3mks)
4.	Distinguish between diffusion and osmosis. (2mks)
5.	A form three student came across two different types of fruits which are described as follows: Fruit A Has free central placentation, hard epicarp and fibres air-filled mesocarp. Fruit B Hasaxile placentation, fleshy mesocarp and brightly colouredepicarp.
	a) Suggest the possible agent of dispersal of each type of fruit. (2mks)
6.	A student examining pond water came across a certain living organisms which he drew as shown below.



- i) Identify the organism shown above. (1mk)
- ii) State the kingdom of the above organism. (1mk)
- iii) Name the structure labeled A. (1mk)
- iv) State the function of the part labeled B. (1mk)
- 7. Give the role of the following hormones during menstrual cycle. (3mks) a) Follicle stimulating hormone.
 - b) Oestrogen.
 - c) Luteinizing hormone.
- 8. During a surgical operation, a doctor accidentally cut two blood vessels A and B. Out of blood vessel A, blood was spurting out while through blood vessel B, blood was flowing smoothly.
 - i) Identify blood vessels A and B. (2mks)

What are the disadvantages of sexual reproduction?	(3mks)
During cold weather, very small mammals eat more than their own of food per day whereas large mammals eat food which is only a sr fraction of their weight. Give an explanation for this.	
State the function of the following cell organelles. (3mks a) Lysosomes.	·)
b) Ribosomes.	
c) Golgi apparatus.	
Pregnancy would persist after the expiry of the fifth month of pregneven if the two ovaries are surgically removed from the body of femindividual. Give an account for this. (2mks)	•
List two main branches of biology and for each, give a definition. (2	mks)
	fraction of their weight. Give an explanation for this. State the function of the following cell organelles. a) Lysosomes. b) Ribosomes. c) Golgi apparatus. Pregnancy would persist after the expiry of the fifth month of pregneven if the two ovaries are surgically removed from the body of femindividual. Give an account for this.

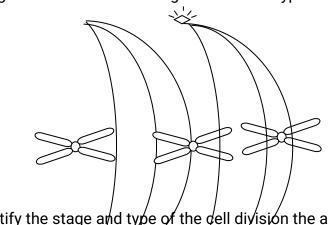
14. What is the role of vascular bundles in plant nutrition?	(3mks)
15. What do you understand by the term double fertilization in flo plants? (2mks)	wering
16. Define the following terms as used in ecology. i) Carrying capacity.	(3mks)
ii) Biosphere.	
iii) Ecological niche.	
17. Distinguish between intra-specific and inter-specific competit	ion. (2mks)
18. (i) Name the process through which free atmospheric nitroge converted into nitrates.(1mk)	n is
(ii) Name the bacteria found in root nodules of leguminous pla	ants. (1mk)
(iii) What is the role of bacteria named (a) above.	

(1mk)

19. In a capture-recapture exercise to estimate population size of dragon flies on a stretch of rivers, 250 flies were first caught and marked. Two days later 500 flies were caught in the second capture and out of this, 50 flies had marks on their bodies. Estimate the population size of the flies. (show your working)

(3mks)

20. The diagram below shows a stage of a certain type of cell division.



- a) Identify the stage and type of the dell division the above cell is undergoing.
- b) State two importance of the above type of cell division. (2mks)
- 21. (a) What is placentation? (1mk)

	b) Give three types of placentation. 3mks)	
22.1	dentify four ways through which the HIV/AIDs virus is transmitted.	(4mks)
23.5	State the mode of asexual reproduction in; a) Yeast. b) Amoeba.	(3mks)
24. (c) <i>Rhizopus</i> species. a) Name one defect of circulatory system in humans.	(1mk)
((b) State three functions of blood other than transport. 3mks)	
25.\	What do you understand by the term oxygen debt? (2mks)

26. List any two distinguishing features of class arachnida.	(2mks)
27. Give the name used to refer to fruit development without fer	tilization.
(1mk)	
28. During which phase of meiosis does crossing over occur?	(1mk)

BIOLOGY PAPER TWO

BIOLOGY

FORM THREE APRIL 2020

Paper 2 (THEORY)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

- Write your name, 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.

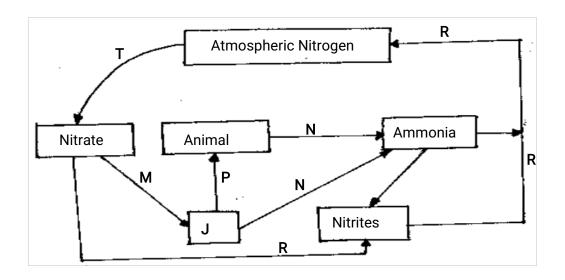
EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
	1	8	
	2	8	
	3	8	
	4	8	
	5	8	

	6	20	
	7	20	
	8	20	
T	OTAL SCORE	80	

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:

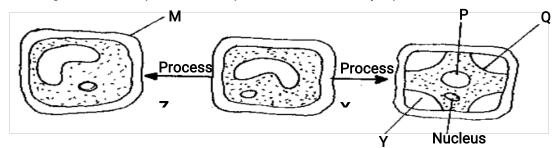
	(c)	Name one process represented by T . (1mrk)	
(1mrk)	(d) (i)	Name a structure in roots involved in process M .	
	(ii) (1mrk)	State one adaptation of the structure named in d (i)	above to its function.
2. shows cell div	The a cell ision.	at a B C	following diagram certain stage of

	a)	Name the type and stage of cell division. (1mrk)
		Туре
		Stage
	(b) (i)	Give one reason for your answer in (a) above. (1mrk)
		What is the significance of the process shown in the diagram above in to the
		behavior of chromosomes? (1mrk)
1mk)	(c)	What is the general name of organs where the above process occurs?
	(d)	Name the part labeled; (2mrks)

		C
		F
above	(e) ?.	State the significance of part labeled A in relation to the process shown (1mrk)
	(f)	Name one cell in plants which is haploid (1mrk)
3.	acid.	experiment to analyze a 200cm ³ sample of air was treated with pyrogallic This reduced its volume to 168cm ³ . Potassium hydroxide was then added se volume of gas reduced further to 160cm 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 behavior of external intercostal muscles during exhalation. (1mk)		
(f)	Explain why smokers are more prone to respiratory tract infections than the non- smokers.(2mks)		

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



	(a)	identify pro	cess	
X		(1mrk)		
	(b)	Name the state of the cell after undergoing process; (2mrks)		
		(i) X		
		(ii) Z		
	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 whic	h is	
usual	ly referre	ed to as "cell's kitchen". (1mrk)		

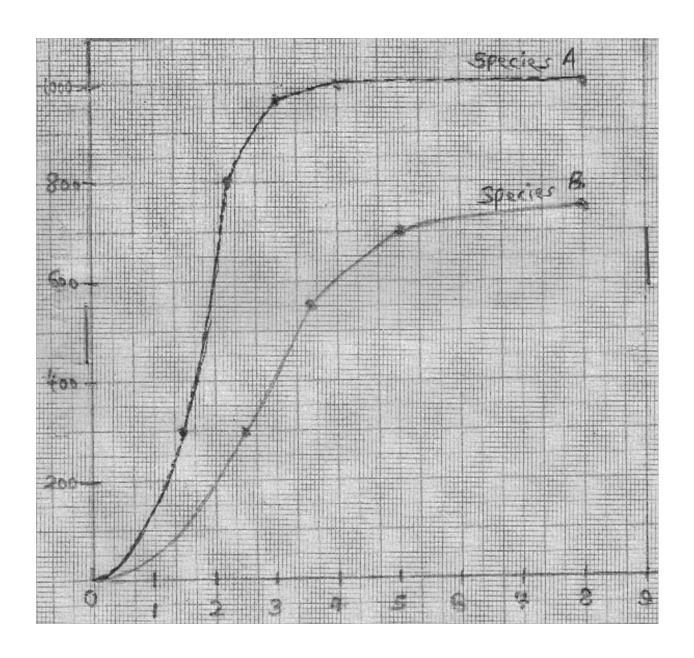
5.	(a)	Name two substances transported in blood plasma. (2mrks)
•••••	•••••	
		(ii)
	(b)	Wanjiru is blood group A .
		(i) Name an antibody found in her blood plasma.(1mrk)
		(ii) Name an antigen found in her red blood cell.(1mrk)
	••••	(iii) Name the blood groups she can donate to; (2mrks)
		Blood groups-
		(i)

	(ii)
	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.



Χ

Х

Χ

mariam	kerubo2020	@gmail.com
HIAHAHI	NEI UDUZUZU	nwyman.com

(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 spicies 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 or distribution in their habitat other than the one illustrated in the above			_	
			(4mrks)	3 1
(e)	Name th	e instruments used to meas	ure the following;	
	(i) L	ight		
	intensity			(1mrk)
	(ii) L	ight	penetration	in
	water		(1mr	k)
	(iii) S	peed		of
	wind			(1mrk)
	(iv)	tmospheric		
	pressure			(1mrk)
7.	Describe	how human male reproduct (20 marks)	ive system is adapted to its	s functions
8.	Describe	how seeds and fruits are (20marks)	adapted to different mod	des of dispersal.

BIOLOGY PAPER THREE

FORM THREE
BIOLOGY PRACTICAL
APRIL EXAMS 2020

NAMEAnswer all the questions in th	
1. You are provided with chemical r (DCPIP) and food solution X	eagents Q (lodine solution), R (NaOH), S (CuSO ₄), T
Using the reagents provided carry of	out food test on solution X
(a) Record your results in the table	below.
(12marks)	

Food substance	Observation	Conclusion

(b) Suggest the importance of food substance present in solution ${\bf X}$ in a human body. (2mks)

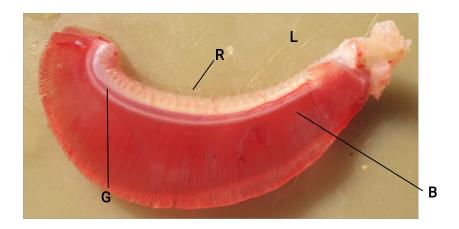
2. Below is a photograph of a certain animal. Examine it and answer the questions that follow.



a) Giving a reason in each case, classify the animal into the taxonomic units in the table below. (4 marks)

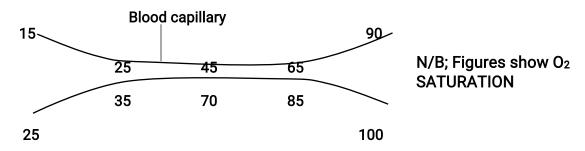
Taxonomic unit	Name of taxonomic unit	Feature
Phylum		
Class		

(b)Study the photograph shown below part of animal above.



List adaptive characteristics of part labe (4mks)	eled G to its function

(c). The following illustration shows a flow in the photograph shown above.



(i) Indicate on the illustration the direction of blood and water flow. (1mk)

(ii)Name the type of flow represented in the illustration (1mk)
(d)(i)Name the process by which oxygen leaves water into capillaries of filaments. (1mk)
(ii)What condition enables an efficient exchange of oxygen by process identified in d(i) above
(1mk)
(e)The atmospheric air has more oxygen than that dissolved in water yet a fish dies immediately after being withdrawn from water. Explain. (1mk)
3. S tudy the photographs of plant structures shown below then answer the

questions.







R2

(a)For each	type of struc	cture show	n above s	state a dis	spersal a	agent
(4marks)						

Structure	Dispersal agent
X1	
X2	
Х3	
X4	

(b)Name the observable adaptive features in **X1** and **X2** that enable them to be dispersed by the dispersal agent identified. (2marks)

Structure	Adaptive features
X1	
X2	

((C)	(i)	Give	possible	descrip	otion of	leaves	and r	oots of	f plant	of flower	labeled	R2 .

Roots	 	(2mks
Leaves (3mks)		

(ii) Flower R2 has polypetalous characteristic. Explain. (1mk)
(iii) Name part labeled Q on X3 . (1mk)

FORM THREE CHAMPIONS APRIL EXAMS 2020 BUSINESS STUDIES PAPER ONE

565/1

BUSINESS STUDIES

PAPER 1

APRIL EXAMS 2020

TIME: 2 HOURS

INSTURCTIONS TO CANDIDATES

- a) Write your name and adm. no in the spaces provided above.
- b) Sign and write the date of examination in the spaces provided above.
- c) Answer ALL the questions.
- d) All answers should be written in the spaces provided in this booklet.
- e) This paper consists of 8 printed pages
- f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- g) Candidates should answer all the questions in English

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Candidate's score														

Question	15	16	17	18	19	20	21	22	23	24	25
Candidate's score											

		TOTAL MARKS		
1.	Define (4 mks	the following terms as used in Business Studies. s) Economics		
	(ii)	Entrepreneurship		
	(iii)	Opportunity cost		
	(iv)	Scale of preference		
2.	Highli	ght <u>four</u> features of a good filling system. ((4 mks)	
	(i) (ii) (iii) (iv)			
3.	Outlin	e <u>four</u> importance of a warehouse to a consumer.		(4 mks)

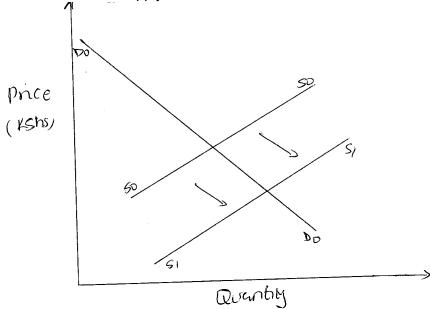
	(1)		
	(ii)		
	(iii)		
	(iv)		
4.	Outline	<u>four</u> benefits of a business plan.	(4 mks)
	(i)		
	(ii)		
	(iii)		
	(iv)		

5.	Highlight <u>four</u> function	s of an er	trepreneur.(4mks)	
	(i) (ii) (iii) (iv)			
6.	State four importance	of a balar	ace sheet	(4 mks)
	(ii)			
7.	The following informatenterprise for the year		xtracted from the books of Dawida bus th June 2000.	sinesses
	Capital as at 30 th June	, 2000	640,000	
	Capital as at 1 st July 1 st	999	420,000	
	Drawing for the year		180,000	
	Net profit for the year		140,000	
	Determine the addition	ıal capital	during the year.	(5 mks)

8. Highlight <u>four</u> barriers to effective communication

(4 mks)

- (i)
- (ii)
- (iii)
- (iv)
- 9. Below is a demand and supply curve.



Highlight the factors that may have led to the above behavior.

(4 mks)

- (i)
- (ii)

	(iii) (iv)		
	(17)		
10.	Outl	line <u>four</u> circumstances under which a cheque maybe be dishonoured.	(4 mks)
11.	Give	e the difference between:	(4 mks)
	(a)	Double and co-insurance	
	(b)	Premiums and surrender value	
12.	High	hlight <u>four</u> advantages of indirect production(4 mks)	
	9.	g <u></u> get ex p. e a a ()	
	(i)		
	(ii)		
	(iii)		

	(iv)					
	Highlight <u>four</u> methods through which the government get involved in bu activities. (4)					
	(i)					
	(ii)					
	(iii)					
	(iv)					
14.	Highlight <u>four</u> duties of commer	cial attaches in trade promotion.	(4 mks)			
15.	Complete the table below. (4 mk	(s)				
	FACTOR OF PRODUCTION	N REWARD				
	Land					
	Capital					
	Labour					
	Entrepreneurship					
	Outline <u>three</u> leakages in a circul	lar flow of income.	(3 mks)			
	(i)					

(ii)			
(iii)			
17. Outlin	e <u>four</u> advantages of using celebrit	ies in product promotion.	(4 mks)
(i)			
(ii)			
(iii)			
(iv)			
	guish between goods and services	. (4 mks)	
GOODS		<u>SERVICES</u>	

Kenya is planning to extend her pipeline transport. State <u>four</u> advantages of pipeline transport to the country.
 (4 mks)

	(i)			
	(ii)			
	(iii)			
	(iv)			
20.	Outline	<u>four</u>	factors that determine the size of a firm.	(4 mks)
	(i)			
	(ii)			
	(iii)			
	(iv)			
	(v)			
21.	Kiburu	carrie	ed out the following transactions during the month of February 20	15.
	Februa	ry 1:	Started business by depositing sh 220,000 in business bank acco	ount
		7:	Bought goods on credit from Miyogo Sh 72,000	

8: Paid rent by cheque Sh 20,000

16: Sold goods to Kamula on credit Sh 50,000.

Required: Post the above transaction in the relevant ledge accounts.(8mks)

22.	Highli	ht <u>four</u> features of perfect competition market.		(4 mks	s)
	(i)				
	(ii) (iii)				
	(iv)				
	` /				
23.		on whether the following transactions have an increase, cassts, capital and liabilities of a business. (4 mks)	decrease or	no effect	
		Transaction	Assets	Capital	Liabilities
	(a)	Bought premises on credit			
	(b)	Took stock of goods and donated to a local			
		dispensary			
	(c)	Withdrew money from bank for office use			
	(d)	Sold furniture receiving cash			
24.		he following abbreviations in full		(4mks)	
	(I)GDF				

(ii)GNP		
(iii)NDP	• • • • • • • • • • • • • • • • • • • •	
. ,		
(iv)NNP		

BUSINESS STUDIES PAPER ONE

565/2

BUSINESS STUDIES

PAPER 2

APRIL EXAMS 2020

TIME: 2 HOURS

INSTRUCTIONS:

Attempt any five questions from this paper.

- 1. a) Discuss five factors that may influence entrepreneurial practice positively in the country. (10mks)
 - b) Explain five principals of insurance. (10mks)
- 2. a) Explain five benefits of matatu reforms in transport sector.(10mks)
 - b) Using a well labeled diagram, differentiate between shift in demand curve and movement along the demand curve. (10mks)
- 3. a) Muema is planning to construct a warehouse for renting. Explain five measures that he may take to ensure its smooth operation. (10mks)
 - b) Explain five methods used to distribute imported manufactured goods.

(10mks)

- 4. a) Outline five measures that the Kenya government may take to reduce unemployment. (10mks)
 - b) Explain five measures that the government may take to increase supply of maize in the market. (10mks)
- 5. a) Describe any five types of business activities. (10mks)
 - b) Munguti, who runs a retail store, had the following assets and liabilitie as at 31st March 2016.

Premises	Sh.	100,000
Debtors	Sh.	4,000
Creditors	Sh.	16,000
Stock	Sh.	2,000
Cash at bank	Sh.	60,000
Cash in hand Sh.	20,000	
Loan from AFC	Sh.	50,000

During the month of April 2015, the following transactions took place 2015

April 1st sold goods at cost Sh. 2000cash

April 2nd Paid creditors Sh. 8000 cash

April 10th received Sh. 2000 from his debtors in cash

April 15th Bought a motor van for Sh. 35,00 paying by cheque

April 25th purchased goods worth Sh. 15000 and paid by cheque

Required: Prepare a balance sheet as at 25th April 2015. (10mks)

- 6. a) Describe the following terms as used in accounting.
 - i) Assets (2mks)
 - ii) Credit transactions. (2mks)
 - iii) Networth of a Business. (2mks)
 - iv) Ledger. (2mks)
 - b) Muinamo started a business on 1st March 2012 with a capital of 240,000 consisting of Sh. 130,00 in bank, Sh. 50,000 in cash and furniture worth Sh. 60,00. Transactions for the first week were as follows;
- 2012: March 2nd purchased a typewriter by cheque Sh. 20,000 March 3rd bought delivery van for Sh. 450,000 from Mwangaza motors on Credit

March 4th Bought stock worth Sh. 15,000 for cash

March 5th Purchased goods worth Sh. 18,000 from Kinyua on credit

March 6th sold goods worth Sh. 30,000 on credit to Menge

March 7th paid 12,000 to Kinyua by Cheque

March 7th received Sh. 4,000 for rent by cheque

Required: Record the above information in the relevant ledger accounts and balance them off on 7th March 2012. (10mks)

AGRICULTURE PAPER ONE

443/1

AGRICULTURE

PAPER 1

APRIL EXAMS 2020

TIME: 2 HOURS

Kenya Certificate of Secondary Education

443/1

Agriculture Paper 1

2 hours

Instructions to candidates

This paper consists of three sections, **A,B** and **C**. Answer all questions in sections A and B and any two questions in section **C**.

All answers be written in the spaces provided after every question.

Candidates should write their names and index numbers in the spaces provided above.

For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
Α	1 -17	30	
В	18 -21	20	
С		20	
		20	
		90	

SECTION A (30MKS)

ANSWER ALLL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED.

- 1. Name the part of planted for each of the following crops.[1 ¹/2]
 - a) Sisal
 - b) Irish potatoes
 - c) Pyrethrum
- 2. State four factors that influence croo productivity positively [2mks]

3.	State four disadvantages of using organic manure in vegetable production [2mks]
4.	State two reasons for earthing up in maize production {Imk]
	State four advantages of manure [2MKS] State two disadvantages of shifting cultivation [lmk]
	the state of the s
7.	State four reasons for sub- soiling in a maize field [2mks]
•	
8.	List four post-harvest practices carried out in tomatoes [2mks]

g. Give four disadvantages of communal land tenure system [2mks]			
10. Name any three insects with biting and chewing mouth parts [1 ¹ /2]			
11. State four factors affecting the efficiency of pesticides [2mks]			
12. List two operation carried out during land preparation [lmk]			

	me two processes through which carbon is he carbon cycle (Imk]	returned to the atmospheres
14. a) si	state two objectives of land redistribution ir	ı Kenya [Imk]
k	b) State four functions of a manager on th	ne farm [2mks]
	me two pests which attack stems of crops r financia! documents that can be kept in ai	

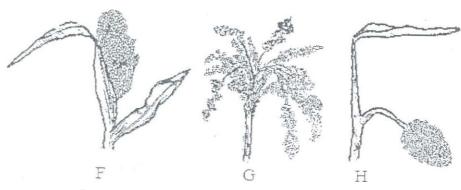
IS.

17	Mention fact	" wavs of ir	mprovina l	and as a	factor of	production I	2nnks
		,		aa a.o a		p	

18. Blarne zwc methods of harvesting agrafcrestry trees [lmk]

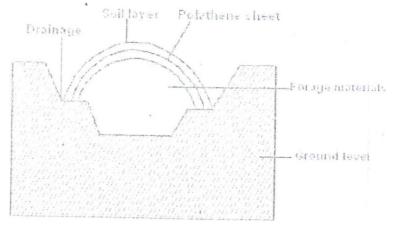
SECTION B (20MKS)

Answer ali the questions in this section in the spaces provided 19 study the diagram below end answer the questions that follow



- Identify the cultivars labeled G and F2mks1
 - b) State the advantage cf cultivar H over F llmkl
 - c) Name the major species of birds that ere responsible for most losses experienced by farmers of the crop represented by the cultivars [Imkl
 - d) Name one disease that attack the grains of the crop [lmk]

Z.The diagram beicw shows a method cf forage presetwetion

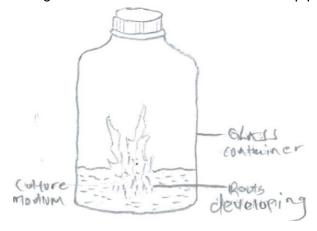


i)identify the structure illustrated [Imk]

ii)State the form in which forage is conserved as ii!ustrated above [lmk]

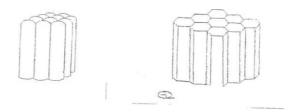
- iii) Give the role of Zhe following in the structure above [2Mksj
 - e) Polythene sheet

- b) Drainage
- iii)What is the reason for compacting the materia:s [lmk]
 - 21. diagram below illustrates a method of crop propagation



a) iden*iiy the rnethcd of propagation (1 mk]

- b) Name one crop propagated thrcc-h t, e nethod[1m k]
- c) State three importance of the methodabove [
- 22. Below are two types of soi'st Pand Q



a) identfy the types of sot! structures

b)Statewhere the 2bove soil structures are likely to be found [Irnk]

d) out:ine three ma:n ways by which scii structure influence crop production {3mks] <u>SECTION C (40MKS)</u>

Answer any two questions from this section in the spaces provided after question 25

- 23. a) describe four agricultural support services available to maize farmers in Kenya [8mks]
 - b) i) what is farm budgeting ii) Name two types of farm budgets
 - A farmer intends to change his enterprise from livestock production to crop production. The cost incurred is as follows

The cost of livestock production include

- Cost of cow ksh.15,000
- Fencing kshs.3,000

 Disease control kshs.5,000 - Spraying costs kshs.500

The cost of crop production includes;

- Land preparation ksh.500
- Seeds ksh.600
- Planting ksh.800
- Fertilizers ksh.1,500
- Disease/ pest control ksh.1,200
- Harvesting ksh.1,100

The revenue from milk sale is ksh.25,000 and sale of calf ksh.4,000 while the revenue he gets from sale of crop s is ksh.23,000. Draw up a partial budget and indicate whether the change is worthwhile or not.

- 24 a)State the various practices carried out in the field to help control diseases [12mks]
- b) Describe eight environmental conditions that may lead to low crop yields [8mks)
- 25 a) describe five methods a farmer can use in harvesting water in the farm [5mks]

- a) Explain seven ways by which soil loses fertility [7 mks]
- b) State the uses of water in the farm [8mksl

PAPER TWO

443/2

AGRICULTURE

PAPER 2

APRIL EXAMS 2020

TIME: 2 HOURS

kenya Certificate of Secondary Education
443/2 Agriculture Paper 2 hours

instructions to candidates

This paper consists of three sections, **A,B** and **C**. Answer all questions in sections A and B and any two questions in section **C**.

All answers be written in the spaces provided after every question.

Candidates should write their names and index numbers in the spaces provided above.

SECTION A (30 MARKS)

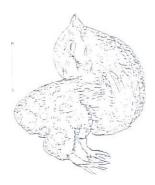
Answer all questions in this section.

- Outline two possible causes of low libido in bucks. (Imk)
- 2. Give the functions of reticulum in food digestion in cattle. (Imk)
- 3. State three properties of concrete that make it more suitable in the construction of farm structures. (11/2mks)

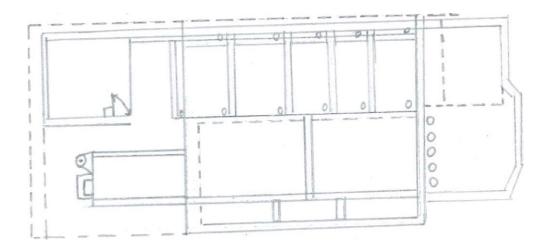
4.	State four factors that would contribute to the depreciation of a farm equipment.(2mks)
5.	Identify the following breeds of livestock (2mks)
	i) A pig breed with dished face, erect ears and white in colour.
	ii) A beef breed cream white in colour usually very heavy its males weighing up to 1200kg
	iii) A white breed of goat usually with long hair
	ill) A wocl sheep with long cur! wool usually covering its face.
6.	List four routes through which pathogens can enter the body of a newly-born calf. (2mks)
7.	Name the hormone that is concerned with milk synthesis. (1/2mk)
8.	State four symptoms of anthrax infection in the carcass of a cow. (2mks)

9.State three characteristics of colostrum that make it suitable for new born live 1/ mks)	vestock. (1
10.A bull gained 100kg of live weight after eating 400kg of beef concentrates operiod of time.	over a
Calculate its feed conversion ratio. (FCR)	(2mks)
11. Give two reasons for raddling in sheep management.	(lmk)
12. Name the intermediate host of liver fluke.	(lmk)
13. Give the meaning of the following terms as used in livestock breeding.	
a)Recessive gene.	(lmk)
b) epistasis.	(lmk)
14.State four signs that indicate that a doe is about to kindle.	(2mks)

15.State four signs of mite attack in poultry.	(2mks)
16.State three signs of broodiness in a hen.	(11/2rnks)
17.State four advantages of fish farming in Kenya.	(2mks)
18. Name four methods of docking in sheep rearing.	
1? State two cecses of soft shelled eczs.	(1m k)
SECTION S	
Answer the zuestizns in this section in the speces provided.	
20.The diagram L•elcw ihustretes a livestock deficiency disease. Study the diagram, swa e the questia•s tha ict;ow	iram and



- a) Identify the disease. (Imk)
- b) Identify the deficient nutrient. (Imk)
- c) Apart from the head retraction, state other symptoms of the deficiency ciseæse in
 (a) above. (2mks)
- d) State one role of the nutrient named in (b) above. (Imk)
- 21. The ground plan of the zero grazing unit shown in the diagram below and answer the questions that follow.



e)Indicate the location of the following parts of zero grazing unit usin: roman numbers on the diagram.

Store

II.Ca!f pen

III. Walking area

I V. Food and water trough area.

(2m!<s)

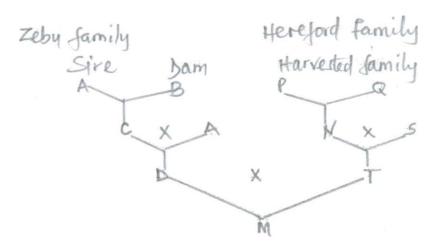
b)What type of a caf pen is in the zero grazing.

(Imk)

c)Stete two structural requirements of a calf pen.

(2mks)

22. The illustration below shows different livestock families. Use it to answer questions that follow.



e)Identiiy the breeding system between

i) C and A

3i)D T

(In-:k)

b)3tete two advantages of the breeding system identified in a	a (ii) above. (2mks)
a'A'\/by in the function exercises identified in a (i) not recomme	andad in dain; aattla (look)
c'A'Vhy is the freeding system idenified in e (i) not recomme	ended in dairy cattle. (imk
23.7he following illustrations shov the behavior cf chicks at	different temperætures a
	D
brooder. Chicks	
A B	
Source of heat a) Explain the temperature conditions in each of the four dizgrams	and D (2mks)
В	
C	
D	
U	***************************************

(2mks)

b)State any four requirements of a good brooder.

c) What is the importance of putting a wire gauze around the heat source. (Imk)

SECTION C (40MARKS)

Answer any two questions in the spaces provided.

24.a)Describe hand milking of a dairy cow. (10mks)

b)Explain the practices observed in clean milk production. (8mks)

c)Name two milk equipments (2mks)

25a)Describe how a four stroke cycle engine operates. (12mks)

b)Describe the daily maintenance of a tractor. (8mks)

26.a)Describe the general safety precautions a farmer should observe when using and handling farm tools. (6mks)

b)Outline the various causes of swarming in bees. (Smks)

c)Highlight six factors that influence the amount of concentrate given to a lactating animal.(6mks)

FORM THREE APRIL EXAMS 2020 PHYSICS PAPER ONE

232/1

PHYSICS

Paper 1

Time: 2 hours

FORM THREE APRIL 2020

Instructions to Candidates

- (a) Write your name and class Admission number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of TWO sections: A and B.
- (d) Answer **ALL** the questions in sections **A** and **B** in the spaces provided.
- (e) ALL working MUST be clearly shown.
- (f) Mathematical tables and nonprogrammable silent electronic calculators may be used.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
Α	1 –12	25	
В	13	13	
	14	18	
	15	7	
	16	11	

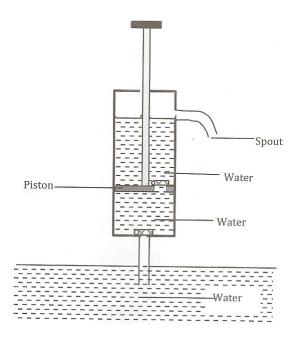
	17	6	
То	tal Score	80	

This paper consists of 12 printed pages. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

<u>SECTION (25 marks)</u> Answer all the questions in this section in the spaces provided

Draw the scale of a micrometer screw gauge with 50 divisions on the thimble scale reading 3.86mm
 marks)

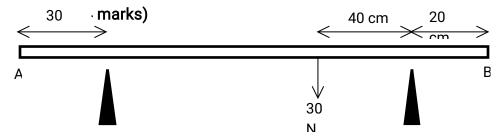
2. The figure below shows a pump used to draw water from a well.



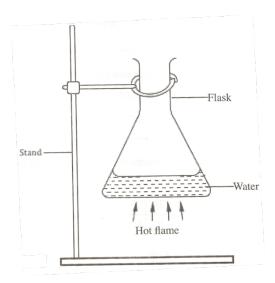
(i)	What is its name.	(1 mark)

- (ii) Give two limitations of using this type of a pump. (2 marks)

 3. Astudentpullsablockofwoodalongahorizontalsurfacebyapplyingaconstantforce.Statethereaso n why the block move sat a constant velocity. (1mark)
- **4.** The figure below shows a uniform bar 2 m long and of weight 100Nplaced on two supports and a 30N force acting 60cm from end B as shown. If the system is in equilibrium, determine the reaction ineach of the two supports.

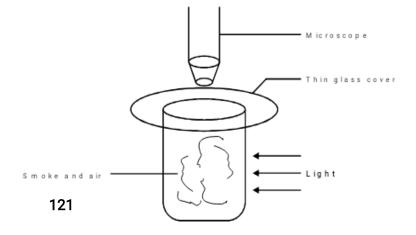


5. The figure belowshowsaflat-bottomedflaskcontainingsomewater.Itisheateddirectlywithaveryhotflame.



	Explain why the flask is likely to crack.	(2marks)
5.	A solid weigh 16.5N on the surface of the moon. The force of gravity on the moon. Determine the mass of the solid.	
7.	A bottle contains a smelling gas is opened at the front of a class room. State the the gas is detected throughout the room. (1mark)	•

8. The diagram below shows apparatus used to observe the behaviour of smoke particle in air.



	(i)	Why are smoke particles suitable for use in this experiment?	(1 mark)
((ii)	What does the experiment tell you about the behaviour of the air molecumark)	les in the cell?
(i	iii)	What difference if any would be seen in the motion of the smoke particle light was used. (1 mark)	es if a weaker
	tatet 2mar	woenvironmentalhazardsthatmayoccurwhenoilspillsoveralargesurfaceare	eaofthe sea.
p	rodu	nree springs shown in Fig 11 are identical and have negligible weight ced on the system of springs is 20cm The system of sp	The extension

11.	The fi	igure below shows an athlete lifting weights while standing with the feet ap	art.
	Expla mark)	in why standing with the feet apart improves the athlete's stability.	(1
12.	A girl	blew air along the horizontal plane below the paper as shown in figure 5.	
		Paper	
;	State mark	and explain what would be observed. s)	(2
10	(a) D	SECTION B (55 marks) Answer all the questions in this section in the spaces provided	
13.		efine the terms;	44 13
	(i)	Inelastic collision.	(1 mark)
	(ii)	Impulse	(1 mark)

gı	bullet of mass 20g leaves the muzzle of a gun at a speed of 350m/s. un is 3.5kg, calculate the recoil velocity of the gun.	
	block of mass 200g rests in a horizontal table. A force of 0.6N pulls t	ha block so that it
	noves with a constant acceleration of 1m/s ² calculate;	ne block 30 that h
(i)	The time it takes to travel a horizontal distance of 200m. marks)	(3
(ii)	The frictional force between the block and the table. marks)	(2
(iii)	The coefficient of kinetic friction between the two forces. marks)	(2

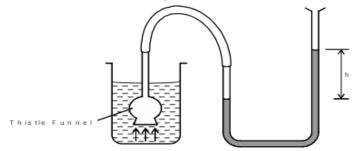
	mariamkerubo2020@gmail.com	
(iv)	A part from frictional force and the normal reaction name any other force.	(1mark)
14. (a) D mark :	efine momentum and state its SI units s)	(2
(b) Si	tate the law of conservation of momentum.	(1
	wo wheeled trolleys, X of mass 3kg and Y of mass 4kg are held together at empressed spring as shown in the figure below.	rest against a

When the trolleys are released at the same instant, X moves to the left at 8m/s. calculate;

(1)	The velocity of Y immediately after the release.	(3 marks)
(ii)	The kinetic energy of X and Y after release. marks)	(4
(iii)	Calculate the compression of the spring given that it has a spring continuous	nstant of 10)
(111)	10 ⁴ N/m.	(3 marks)
on	arrow of mass 20g traveling horizontally strikes a block of wood of mass a horizontal surface. The impact takes 0.2 seconds before the two move initial velocity of 5m/s. Calculate;	
(i)	The velocity of the arrow before the impact.	(3 marks)

(ii)	The force of impact.	(2 marks)

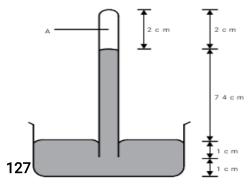
15.a)The diagram below shows a set up used by a student to show variation of pressure in a liquid. Use it to answer the question that follow.



towards the surface of the liquids. (2 marks)

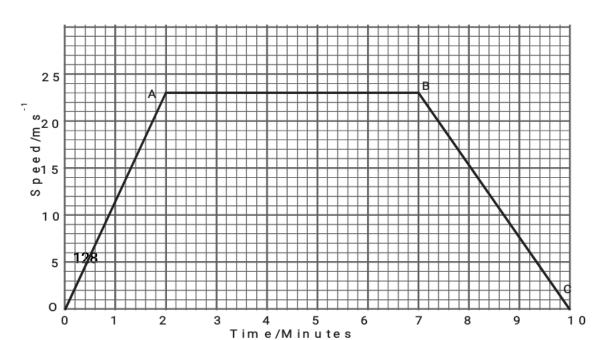
State and explain the effect on the height, h, when the thistle funnel is moved upwards

b) Figure below shows a simple barometer.



What is the region A?	(1 mark)
What keeps the mercury in the tube?	(1 mark)
What is the value of the atmospheric pressure being shown by the baron	neter? (1 mark)
What would happen to the reading if the barometer were taken up a high (1 mark)	mountain.
Give a reason for (d) above.	(1 mark)
	What keeps the mercury in the tube? What is the value of the atmospheric pressure being shown by the baron What would happen to the reading if the barometer were taken up a high (1 mark)

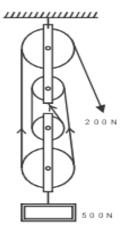
16. The speed of a train, hauled by a locomotive varies as shown below as it travels between two stations along a straight horizontal track.



the maximum speed of the train.	(1 mark)
The acceleration of the train during the first 2mins of the marks)	journey. (2
The time during which the train is slowing down. marks)	(2
The total distance, in metres, between the two stations. marks)	(4

.....

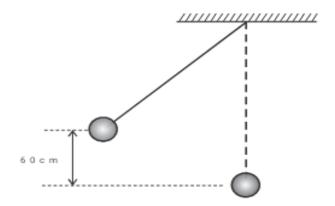
17.a) The figure below shows a pulley system being used to raise a load.



Given that the size of the load is 500N and the effort applied is 200N, calculate the efficiency of the machine.

(3 marks)	

b) A pendulum bob is raised to a height of 60cm above its lowest point and made to swing as shown in the figure.



Determine the velocity of the mass at the height where kinetic energy is equal to the potential energy.

(3 marks)	

FORM THREE APRIL EXAMS 2020 PHYSICS PAPER TWO

232/2

PHYSICS

Paper 2

Time: 2 hours

FORM THREE APRIL EXAMS 2020 FORM THREE

Instructions to Candidates

- (g) Write your name and class register number in the spaces provided above.
- (h) Sign and write the date of examination in the spaces provided above.
- (i) This paper consists of **TWO** sections: **A** and **B**.
- (j) Answer ALL the questions in sections A and B in the spaces provided.
- (k) ALL working **MUST** be clearly shown.
- (I) Mathematical tables and non programmable silent electronic calculators may be used.
- (m) This paper consists of 10 printed pages.

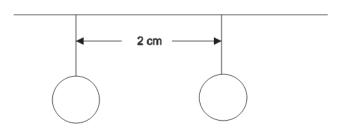
For Examiner's Use Only

Section	Question	Maximum	Candidate's
		Score	Score
Α	1 – 11	25	
	12	5	
В	13	15	
	14	11	
	15	14	
	Total Score	70	

SECTION I (25 marks)

Answer all the questions in this section

1. The figure below shows two identical balloons inflated with air and suspended with a light cotton threads such that the two balloons are 2 cm apart.



(2 marks)

Explain what is observed when a plastic ruler is rubbed vigorously against dry hair (human hair) and placed between the two balloons but without touching them.

••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••••	••••••	• • • • • • • • • • • • • • • • • • • •

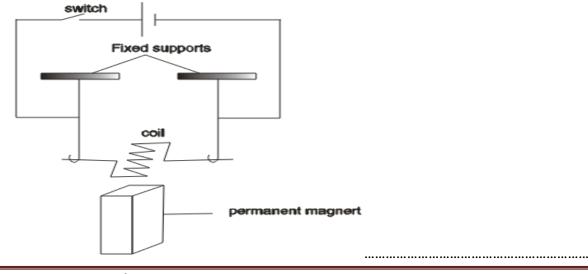
2. An object dropped into well hits water 3.5seconds after been released. How deep is the well?

Take gas 10m/s ²	(3 marks)

3. A car battery requires topping up with distilled water occasionally. Explain why this is necessary and why distilled water instead of tap water?

	(1 mark)
4.	A small object lies at the bottom of a water pond at a depth of 1.2m. given that the refractive index of water is 1.3, determine the apparent depth of the object (3marks)

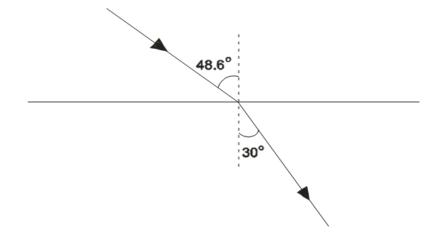
5. The figure below shows a copper kept in a magnetic field and suspended on a frictionless conductor connected with a direct current supply. When the current is switched on, the copper coil rotates on its support. Explain how this motion is caused by the flow of current. (3 mark)



5 .	Differentiate between transverse and longitudinal waves. mark)	(1
•	The figure below shows a circuit that can be used to magnetize a given the circuit to show the direction of the current around the bar that will repolarities shown. (1 mark)	
•	An object is placed 30 cm in front of a concave mirror of focal length 15 identical object is 30 cm in front of a plane mirror.	cm and anoth
	(i) Give one similarity between images formed.	(1 mark)
	(ii) Give one difference between images formed.	(1
	mark)	,

9.	Suggest a reason why it is not possible to increase the strength of a magnet indefinitely. (2 mark)
10	. Resistors of 2Ω and 3Ω are connected in series with a cell and voltmeter connected
	across the 3Ω resistor reads 1V, but this increases to 1.2V when an extra 2Ω resistor is
	connected in parallel with the first 2Ω resistor, calculate the e.m.f and the internal
	resistance of the cell. (4 marks)

11. The figure below shows a ray of light travelling from air to a liquid. The ray incidents the liquid at 48.6° and is refracted at 30°. Calculate the speed of light in the liquid (3 marks)



SECTION II(45 marks)

Answer all the questions in this section

12.(a) (i) A pinhole of 1mm diameter is in the middle of a piece of black paper covering one end of a tube 1m long. The end of the tube is covered by a screen of a tracing paper. When the pin hole is directed towards the sun, the diameter of the image is found to be10mm. Draw a ray diagram showing how the images are formed.

(2 marks)

(ii) The sun is just covered by a disc of 2 cm diameter placed about 2 meters from the eye from the eye. In the length of the diameter of the sun's image formed by

	a pinhole ca	mera is 0.5 <i>(3 marks)</i>		culate the	distance froi	n the pinh	ole to the screen.
					bject, concave		nd a white screen.
(3 mai		w you can e	estimate	tile local	length of the	Concave	TIIITOT.
	•••••						
•••••	•••••	••••••	•••••	•••••		••••••	
•••••							
b) In a	an experimer	nt to detern	nine the f	focal leng	th of a curve	d mirror, tl	he results in table
below	were obtaine	ed.					
	U	20	25	30 [40	50	70
	(cm)						
	V (cm)	20	16.7	15	13.3	12.5	11.6
(i) Plo	ot a graph of	UV (y-axis)	against ((U + V) (x	-axis):		(5marks)
For and Page 1	swers, contact	t/Whatsapp	/sms-074	16 <mark>71189</mark> 2			

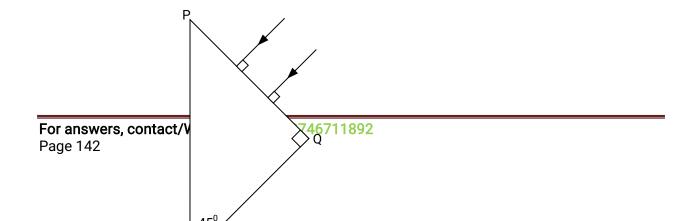
(ii)	From your graph, determine the focal length of the mirror.	(3 marks)
c)	Explain why a concave mirror is used as a shaving mirror.	(2 mark)
		•••••
d)	Give one difference and one similarity between virtual images for	med by plane
miı	rrors and concave mirrors.	
	(2 marks)	

14.(a) State two ways of increasing the strength of an electromagnet.	(2
marks)	,
(b) The diagram below shows an electric bell.	
Battery Soft iron Switch Contacts Contacts	ıt.
(i) Name the parts labeled A , B , C and D .	(2 marks)
(ii) State and explain what happens to the soft iron armature when the closed. (2 marks)	he switch is

	••••
	••••
(c) A thin copper wire XY is placed over two parallel thick copper conductors connect to a d.c. power supply as shown below. When the switch in the circuit is closed,	
wire XY experiences a force.	
(i) Indicate on the diagram direction in which the wire XY experiences the for	rce.
(1 mark)	
(ii) Explain how you have determined the direction of the force in (i) above. (2 marks)	
	••••
	•••••
	•••••
(iii) When is the force acting on the wire XY greatest? (1 mark)	

mariamkerubo2020@gmail.com (iv) What is the effect of reversing the direction of flow of the current? (1 mark) 15.(a) State two conditions which must be satisfied for total internal reflection to occur. (2 marks)

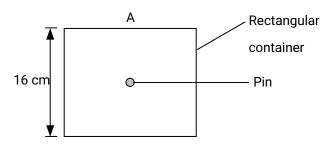
(b) The diagram below shows two rays of light incident normally on face **PQ** of a glass prism, whose critical angle is **42**⁰.



Complete the diagram to show the paths of the two rays as they pass through the prism.

(3 marks)

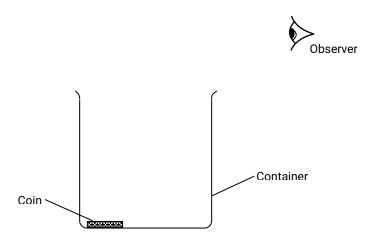
(c) A pin is fixed horizontally at the centre of a rectangular container with thin transparent walls as shown below.



A transparent liquid is then poured into the container. When viewed from side **A**, the distance of the pin is **6 cm** from the surface of the liquid. Determine the refractive index of the liquid.

3 marks)	
	.

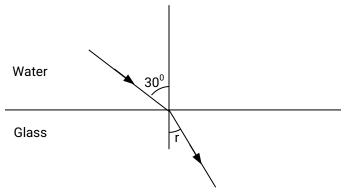
(d) The figure below shows a coin placed in a large empty beaker. An observer looking into the beaker from the position shown is unable to see the coin.



Sketch two rays from a point on the coin to show how the observer is able to see the image of the coin after the container if filled with water.

(3 marks)

(e) A ray of light is incident on a water-glass interface as shown in the diagram below.



Calculate the value of angle, **r**, given that the refractive index of glass and water are **1.5** and **1.33** respectively.

(3 marks)

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FORM THREE CHAMPIONS APRIL EXAMS 2020 PHYSICS PAPER THREE

PHYSICS PRACTICAL

Paper 3

2½ hours

FORM THREE APRIL EXAMS 2020

INSTRUCTIONS

- * Write your name, admission number and class in the spaces provided above.
- * Answer all the questions in the spaces provided in the question paper.
- * You are supposed to spend the first **15 minutes** of the **2½ hours** allowed for this paper reading the whole paper carefully before commencing your work.
- * Marks are given for **a clear record** of the observations **actually made**, their **suitability**, **accuracy** and the **use** made of them.
- * Candidates are advised to record their observations as soon as they are made.
- * Electronic calculators and mathematical tables may be used.

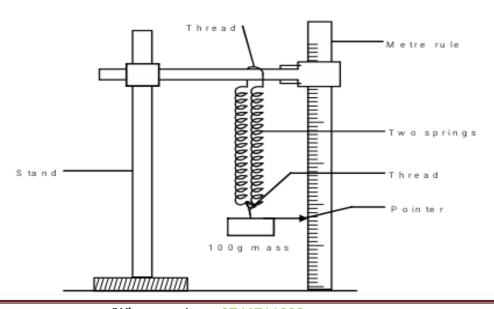
For Examiner's Use Only.

Question	Maximum score	Candidate's score
1	20	
2	5	
Total	25	

Question One

You are provided with the following:

- One stand
- One boss
- One clamp
- Two pieces of thread
- One stopwatch
- One metre rule or half metre rule
- Two springs.
- Six 100g masses
- A piece of cellotape.
- a) Hang the springs from rod of a clamp as shown in the figure above.



- (i) Tie together the upper end and the lower ends to springs with pieces of thread as shown in the figure.
- Hang a 100g mass from the lower ends of the springs so that the mass is supported by (ii) both springs.
- (iii) Clamp the rule vertically with zero centimetre mark uppermost.
- (iv) Use cellotape to fix the optical pin on the top of the 100g mass so that it acts as a pointer.
- (v) Adjust the rule so that the pointer is at 40.0cm mark from the top of the rule.
- b) Add a 100g mass to the first mass. Record the new position of the pointer and the (i) extension, e, in the table below.
 - (ii) Add another 100g mass and record the new position of the pointer and the extension in the table.
 - Repeat b(ii) until the total mass supported by the spring is 600g. (iii)
- c) (i) Remove the rule. Displace the 600g mass slightly downwards and release it to oscillate vertically.
 - (ii) Time 20 oscillations. Record in the table the time, t₁ for 20 oscillations. Repeat this to obtain the average time, t, and theperiod of oscillation T.
 - (iii) Repeat (c) (i) and (ii) for 500g, 400g 300g and 200g masses.
 - (iv) Find T² and complete the table.

Mass (g)	100	200	300	400	500	600

Position of point				
(cm)	40.0			
Extension, e, cm	0.0			
Time of t, (s)				
20 oscillations t2(S)				
Average time, t(s)				
Periodic time, T(s)				
T ² (S ²)				

d)	(i)	On the grid provided plot a graph of T^2 (vertical axis) against the extension, e.	

(5 marks)

(ii)	Determine the gradient of the graph.	(2 marks)

(iii) The equation of the graph is given by
$$T^2 = \frac{4\pi^2}{b}e + c$$

Where b and c are constants. Determine the value of b.	(1 mark)

(v) What does the value of b represent?

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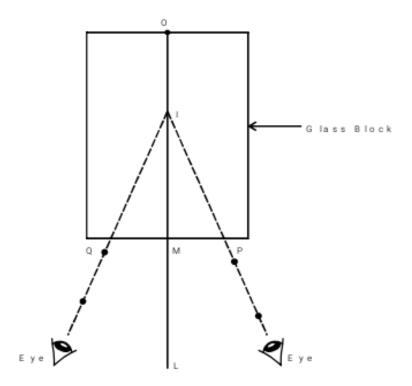
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Question Two

You are provided with the following apparatus.

- Rectangular glass block
- 3 optical pins
- A soft board.
- A plane paper
- 4 paper pins.

Place the rectangular glass block in the middle of the plane paper and trace its outline. Using a pencil remove the block.



	Cons	struct a perpendicular line LMO bisecting the shorter sides of M	1 and O.
	Mark	points P and Q such that PM = MQ = 5cm.	
a)	Meas	sure	(1 mark)
	ОМ		
	(i)	Place the plane paper on the soft board and carefully replace it fit the outline.	e the glass block so that
	(ii)	Press the object pin on O such that it is upright and touching second pin on P also upright and touching the block.	glass block and the
	(iii)	Press the third pin P_1 a short distance from the block such the straight line when viewed through the block with one eye. I is pin 0. Repeat the experiment with now on Q. Press the third pin P_2 and P_3 are the straight line when viewed through the block with one eye. I is pin 0.	the image of the object
		the block such that when viewed P2, Q and I lie in a straight line	ne.
b)		ove the pins and glass block; draw the lines P1PI (PI dotted) an ing OM at I.	d P ₂ QI (QI) doted
	IM =	cm	(1 mark)
c)	Usino	g the above information calculate the refractive index of the gla	•
	appa	rent depth method.	(2 marks)

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d)	NB - Hand in your work on the plane paper.	(1 mark)

MATHEMATICS PAPER ONE

121/1

MATHEMATICS

PAPER 1

TIME:2HOURS

INSTRUCTIONS TO CANDIDATES:

- Write **your name** and **admission number** in the spaces provided above
- This paper contains two sections; Section I and section II.
- Answer all the questions in section I and only five questions from section II.
- All workings and answers **must** be written on the question paper in the spaces provided below each question.
- Marks may be given for correct working even if the answer is wrong.
- Calculators and KNEC mathematical tables may be used EXCEPT where stated otherwise
- Show all the steps in your calculations, giving your answers at each stage in the spaces below each question

For Examiner's Use Only;

Section I

Questions	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL
Marks																	

Section II

Questions	17	18	19	20	21	22	23	24	TOTAL

Marke					
Marks	1				
	1				
	1				
	1				

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

	3
1.	Without using mathematical tables or calculators, evaluate the following leaving your
answe	er as a
	fraction in its simplest form.
(3mks)
	$3\sqrt{\frac{0.119 \times 0.256}{0.068 \times 7}}$
0	Two have and a girl above doors manay. The alder have not 4/ of it the very near have not
2. ² / ₅ of t	Two boys and a girl shared some money .The elder boy got ½ of it, the younger boy got
/5 OI ti	iie
a::ul/a a	reminder and the girl got the rest. Find the percentage share of the younger boy to the
girl's s	chare.
(4mks)

3. From a point A, the angle of elevation of top of a watch tower is 20° . From another point which is

25m from the base of the tower, the angle of elevation of the top of the tower is 26°. Giving your answer to three decimal places, determine the height of the tower and hence calculate the distance between the points A and B if they are both on the same side of the tower and lie on a straight line with the base of the tower.

(3mks)

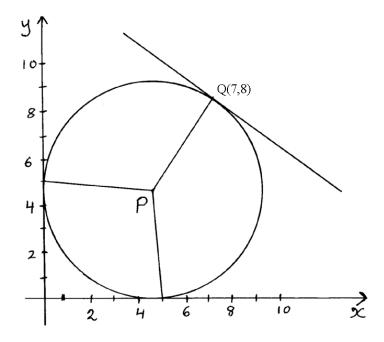
4. If X is a positive integer, find all possible values of x given that $1 < \frac{2}{5}x^2 < 7$. (3mks)

5. A train whose length is 60 metres is travelling at 40km/h in the same direction as a bus whose length is 20m. If the speed of bus is 80km/h and moving parallel to the train, calculate the time it takes the truck to overtake the train completely in seconds.

(3mks)

6. A positive two digit number is such that the product of the digits is 20. When the digits are reversed, the number so formed is greater than the original number by 9. Find the number.

7. The diagram below shows a circle with centre P(5,5) and radius 5 units



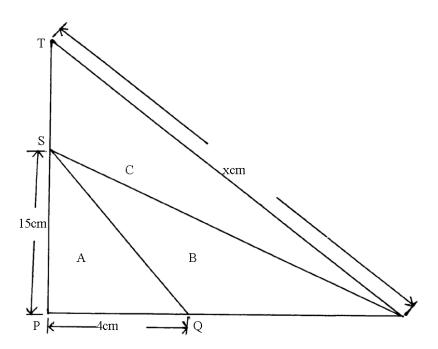
(a) Write down in terms of x and y the equation of the circle in the form ax²+by²+cx+dy+e=0
 where a,b,c,d and e are constants.
 (1mk)

- (b) Determine the gradient of PQ (1mk)
- (c) Find the equation of the tangent at Q in the form ax+by=c. (2mks)

Find the value of x in the following figure given that area A = Area B= Area C(Give your 8. answer

to 2 decimal places)

(4mks)



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9.Odhis car Hire company hires out as follows; sh. 2500 per day and sh. 270 per kilometer covered. They offer a discount of 30km free each day of hire.Makori hires a car for 5 days and drives for 480km.Calculate the total cost. (2mks)
10.0mwando borrows sh. 90,000 for 5 years at 6 $\frac{1}{2}$ % simple interest p.a.What amount does he
have to pay at the end of that time?
(3mks)
11 Calva for t in the aquation
11. Solve for t in the equation
$9^{t+1}+3^{2t}=30.$
(3mks)

12. Given the curve $y=x^2-2x+6$, find the coordinates of the point on the curve at which the gradient is 4.

(2	m	اد	١
ιz	m	KS	

13.Mary has some money in two denominations only. Fifty shilling notes and twenty shilling coins. She has three times as many fifty shilling notes as twenty shilling coins. If altogether she has sh. 3400, find the number of fifty shilling notes and 20 shilling coins.

14.In Ngamongo village, a piece of work can be completed by 45 workers in 10 days .They worked for 4 days after which 15 workers were laid off. How many days would it take the remaining workers to complete the work?
(3mks)

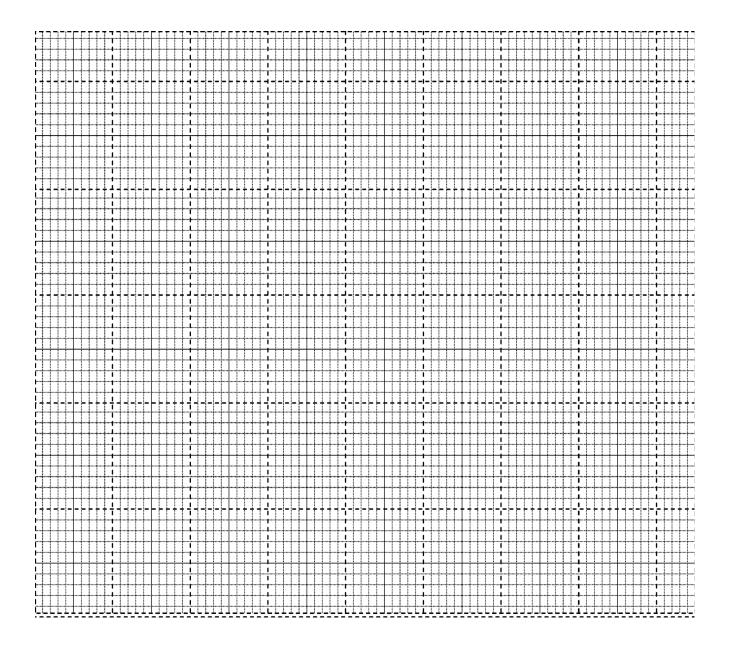
15. The table below shows marks obtained by a form three class in a certain school.

Marks (x)	8 ≤ <i>X</i> < 9	9 ≤ <i>X</i> <11	11 ≤ <i>X</i> <13	13 ≤ X < 16	16 ≤ X < 20	20 ≤ X < 21
No. of students	2	6	8	3	2	1

(y)			

Use the table to represent the information on a histogram.

(3mks)

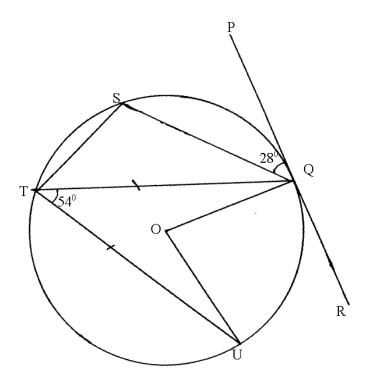


16. Find the inverse of the matrix $\begin{pmatrix} 2 & 1 \\ 3 & 2 \end{pmatrix}$ and hence solve the simultaneous equations

below.	(4mks))	
	2x+y=2	21	
	3x+2y=	=34	
			SECTION II (50 MARKS)
			ANSWER ANY FIVE QUESTIONS.
17.	A bag	contain	s 5 red , 4 white and 3 blue beads. Two beads are selected at random.
	(a)		tree diagram and list the probability space.
	(3mks))	
	<i>a</i> >		
	(b)		e probability that
	(2mks)	(i))	The last bead selected is red.
		(ii)	The beads selected were of the same colour
			(2mks)

(iii) At least one of the selected beads is blue.(3mks)

18. In the figure below, 0 is the centre of the circle. PQR is a tangent to the circle at Q. Angle $PQS=28^{\circ}$, angle $UTQ=54^{\circ}$ and UT=TQ.



Giving reasons , determine the size of

(a) Angle STQ.

(2mks)

(b) Angle TQU.

(2mks)

(c) Angle TQS

(2mks)

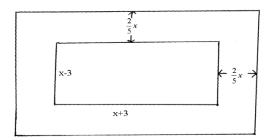
(d) Reflex angle UOQ .

(2mks)

(e) Angle TQR. (2mks)

19. The following figure represent a dancing floor with a carpeted margin all around of

 $\frac{2}{5}$ x wide leaving a dancing space of (x-3)m by (x+3)m



If the total area of the entire room is 315m²

(a) Calculate the value of x.(5mks)

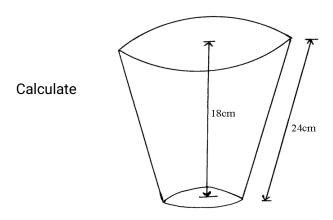
(b) Calculate the area of the carpeted margin.(3mks)

	c) If the carpet cost sh. 750 per m²,calculate the total cost of the sealed margin. 2mks)
sh 45 pe	n bought 3 brands of tea, A B and C. The cost price of the three brands were sh 25, sh 30, er kg respectively. He mixed the three brands in the ratio 5:2:1 respectively: After selling ure he made a profit of 20%.
	a) How much profit did he make per kilogram of the mixture? 4 mks)
(b) A	After one year the cost price of each brand was increased by 10%

For how	w much did he sell one kilogram of the mixture to make	a profit of 15%? (Give your
		(3 mks)
What v	vould have been his percentage profit if he sold one kilo	ogram of the mixture at sh.
	(3	mks)
d.It then	continues at this velocity for the next 40 seconds after	
(a) (2mks)	Determine (i) The acceleration over the first 10 seconds)	
	A car addit there to rest	A car accelerates from rest for 10 seconds until it reaches a vel. It then continues at this velocity for the next 40 seconds after to rest until a constant retardation of 1.5 meres per second (a) Determine

ne.
nc.
luring the first
(2mks)

22. The diagram below shows a flower vase of depth 18cm. The ratio of the top and bottom diameters is 5:2 (Take Π =3.142)



(a) The volume of the flower vase

(7mks)

(b)	The curved surface area of the flower vase
(3mks)	

- 23. Given that x-y=3 and 3x+y=17, find without solving for X and Y the value of
- $2xy-x^2-y^2$ (a) (2mks

(b)
$$6xy+y^2+9x^2$$
 (2mks)

(c) $3x^2-2xy+y^2$ (3mks)

(d)
$$\frac{3 x^2 - 4 xy + y^2}{9 x^2 - y^2}$$

(3mks)

- 24. Three Kenyan warships A,B and C are at sea such that ship B is 450km on a bearing of 030⁰ from ship A. ship C is 700km from ship B on a bearing of 120⁰. An enemy ship D is sighted 1000km due south of ship B.
 - (a) Taking a scale of 1cm to represent 100km locate the position of the ships A,B,C and D
 - (b) Find the compass bearing of :
 - (i) Ship A from ship D

(1mk)

(ii) Ship D from ship C

(1mk)

- (c) Use the scale drawing to determine
 - (i) The distance of D from A

(1mk)

(ii) The distance of C from D

(1mk)			
	(d)	Find th	ne bearing of :
(1mk)		(i)	B from C
(1mk)		(ii)	A from C

MATHEMATICS PAPER TWO

121/2

MATHEMATICS

PAPER 2

TIME: 2HOURS

121/2

MATHEMATICS

PAPER 2

TIME:2HOURS

INSTRUCTIONS TO CANDIDATES:

- Write **your name** and **admission number** in the spaces provided above
- This paper contains two sections; Section I and section II.
- Answer all the questions in section I and only five questions from section II.
- All workings and answers **must** be written on the question paper in the spaces provided below each question.
- Marks may be given for correct working even if the answer is wrong.
- Calculators and KNEC mathematical tables may be used EXCEPT where stated otherwise
- Show all the steps in your calculations, giving your answers at each stage in the spaces below each question

For Examiner's Use Only;

Section I

Questions	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL
Marks																	
Section II												ļ.				·	!

<u>occion ii</u>										
Questions	17	18	19	20	21	22	23	24	TOTAL	GRAND
Marks										

For answers, contact/Whatsapp/sms-0746711892

This paper consists of 14 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

1. Evaluate without using tables or calculators.

(3mks) 0.8064 X 6.048 1.008 X 0.1344

2. Evaluate $-4 ext{ of } [(-4 + -5 \div 15) + -3 - 4 \div 6)]$ (2mks) $84 \div -7 + 3 - -5$

3. Solve for θ without using table given that $0 \le \theta \le 90^{\circ}$ and that $\sin (2\theta - 30^{\circ}) - \cos 4\theta = 0$ (3mks)

4. Solve for x given that $5^{2x+2} - 20 \times 5^{2x} = 625$ (3mks)

5. The angle of a quadrilateral ABCD in order are 2 (x - 10), 4 (x + 5), 5(x + 4) and (x - 20) in degrees. Find the exterior angles of the quadrilateral. (4mks)

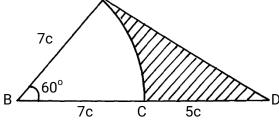
6. A radio costing kshs. 1240 is marked to sell at a price calculated to give a profit of 40 %. What will be its selling price in sale when 25% is taken off the marked price? (3mks)

7. Show that if OA = -i + 7j, OB = 3i - 5j and OC = 4j, then points AB and C are collinear. (4mks)

- 8. Four men can dig 2 acres of land in 3 days working 4 hour a day. How many men are required to dig 5 acres of land in 4 days working 3 hours a day at the same rate. (3mks)
- 9. The surface area of two similar bottles are 12 cm² and 108cm² respectively. If the larger one has a volume of 810 cm³. Find the volume of the smaller one. (3mks)

In the figure given below, AC is an arc of a circle centre B \angle ABD = 60 $^{\circ}$, AB = BC = 10. 7cm

and CD= 5 cm.



Calculate

a) The area of triangle ADB (2mks)

b) The area of the shaded region.

(2mks

11. Solve the inequalitites and represent the information on the number line. (3mks)

$$-3+2x<3x+2<4(x-5)$$

12. Make x the subject of the formula in $3s=2p\sqrt{3x-5}$ (3mks) 13. Given x = 13.4cm and y = 4.3 cm. calculate the percentage error in \underline{x} correct to 4 d.p(3mks)

14. A straight line through the point A (2, 1) and B (4,m) is perpendicular to the line whose equation is 3y = 5 - 2x, Determine the value of m. (3mks)

15. Okoth deposited some money at 10% compound interest compounded annually. How long will it take to double the amount to the nearest year?

(3mks)

16. Chebet has 5 brown chicken and 3 black ones. She picks two of them for slaughter at random, one after the other. What is the probability that the two are of different colours. (3mks)

SECTION II Answer only five questions.

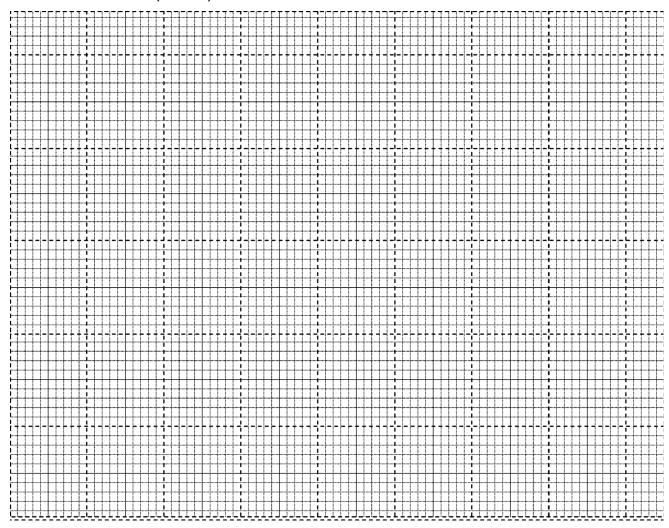
17. A bus left Nairobi at 8.00am and traveled towards BUsia at an average speed of 80km/hr. At 8.30 am a car left Busia for Nairobi at an average speed of 120km/hr. Given that the distance between Nairobi and Busia is 400km. Calculate: a) The time the car arrived in Nairobi. (2mks)
b) The time the two vehicles met. (4mks)
c) The distance from Nairobi to the meeting point. (2mks)
d) The distance of the bus from Busia when the car arrived in Nairobi. (2mks)
18. A triangle whose vertices are A (1,4) B (2,1) and C (5,2) is given the following

transformation:

- i) Reflection in the line $y = -x \text{ to } A^1B^1C^1$
- ii) $A^1B^1C^1$ is then given rotation of + 90° about the origin to $A^{11}B^{11}C^{11}$
- iii) $A^{11}B^{11}C^{11}$ is then given a translation $vec{t^2}$ to $A^{11}B^{11}C^{11}$
- iv) $A^{11}B^{11}C^{11}$ is then given an enlargement scale factor 2 centre (0, 0) to $A^{IV}B^{IV}C^{IV}$.

On the given grid plot a triangle ABC and it's images $A^1B^1C^1$, $A^{11}B^{11}C^{11}$, $A^{111}B^{111}C^{111}$ and $A^{IV}B^{IV}C^{IV}$. And give coordinates of $A^{IV}B^{IV}C^{IV}$.

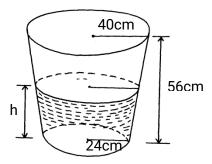
(10mks)



post to point R, on the level ground. The points T, O and R from a right angled isosceles triangle whose perimeter is 56m. S is another point on the level ground 35m from O calculate:	;
a) The angle of elevation of T from S. (6mks)	
b) The distance ST. (2mks)	
c) Find the maximum possible distance between R and S. (2mks)	
20. A salesman received a basic salary of sh. 50,000 a year together with a commission of 6 % on the value of goods sold and a car allowance of sh. 2.50 per km. a) Find the total amount he received in a year in which he sells goods worth sh. 625,000 and travels	l
10,000km. (4mks	s)

b) The next year he travels 12,000km and receives a total of shs. 134,000 i) Calculate the value of goods sold. (4mks)
ii) Calculate the percentage increase in the value of the goods sold. (2mks)
21. Two airports a and B are such that B is 500km due east of A. two plane P and Q take off from A and B respectively and at the same time. Plane P files at 360km/hr on a bearing of 030° Plane Q flies at 240km/hr on a bearing of 315° The two planes land after 90 minutes. Using a scale of 1: 10,000,000 a) Show the positions of the planes after 90 min. (6mks)

- b) Find the distance between the planes after 90 min. (2mks)
- c) Find the bearing of plane Q from plane P after 90 minutes (2mks)
- 22. The figure below shows a container in form a frustrum of an open top radius 40cm and base radiu24 cm. the depth is 56 cm.

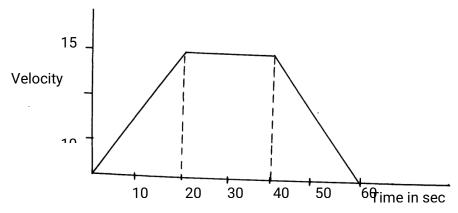


a) Calculate the volume of the container in litres. (4mks)

b) Of the container is 34 full of water by volume, Calculate the radius of the meniscus. (6mks)

23. Use a ruler and compass only in this question. a) Construct Δ ABC such that AB = 6cm AC= 8.5 cm and \angle BAC = 120° (3mks)
b) Construct the locus ℓ, of points equidistant from A and B (2mks)
c) Construct the locus {zof points equidistant from AB and BC (3mks)
d) Find the points of intersection, P_1 and P_2 , of 1_1 and 1_2 and measure P_1P_2 (2mks)

24. The diagram below shows the graph of a moving matatu from one bus stop to another.



a) Find the acceleration of the matatu. (2mks)

b) Find the deceleration of the matatu (2mks)

c) Calculate the distance the matatu while accelerating. (2mks)

d) Calculate the distance the matatu covered while traveling at an acceleration of $0 \, \text{m/s}^2$ (2mks)

e) Find the distance between the two bus stops.

FORM THREE APRIL EXAMS 2020 CHEMISTRY PAPER ONE

233/1

CHEMISTRY

PAPER 1

TIME:2HOURS

FORM THREE APRIL 2020

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

INSTRUCTIONS TO CANDIDATES:

- Write your **name school** and **index number** in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- Answer all the questions in the spaces provided below each question.
- 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
1-28	80	

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.

1. Identify and state the use of the apparatus represented below. (2 marks)



Use.....

- 2. Give the systematic name of each of the compounds represented by the formulae below. (3 marks)
 - (a) CH₃C≡CCH₃

(b) CH ₃ CH=CHCH ₂ CH ₃	
3. A fixed mass of a gas occupies 105cm³ at -14 °C and 650mmHg. At what te have a volume of 15cm³ if pressure is adjusted to 690mmHg?	mperature will it (3marks)
4. a) Using dots (.) and crosses (x) to represent electrons, show the bonding ir formed between magnesium and fluorine. (Atomic numbers; Mg= 12, F=9)	=
b) State one likely physical property of the compound formed between n fluorine in (a) above. (1	nagnesium and mark)
5. A set-up to investigate electrical conductivity of substances was assemble below.	ed as shown
PbI _{2(s)} Crucible	
The bulb did not light.	
(a) What was missing in the set-up?	(1 mark)
(b) The bulb lit when the omission was corrected. Explain.	(2 marks)

6. An oxide of copper in a porcelain boat was reduc	ed by a stream of hydrogen. The results
obtained were as follows;	

Mass of porcelain boat = 4.5g

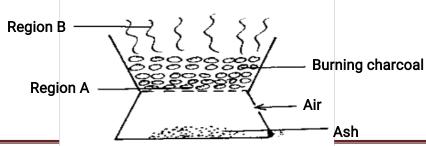
Mass of boat + Oxide = 6.40g

Mass of boat + Copper = 6.02 g

i) Determine the empirical formula of the oxide. (3 marks)

ii) If the relative formula mass of the oxide is 80, determine its chemical formula. (Cu = 64, O = 16) (1 mark)

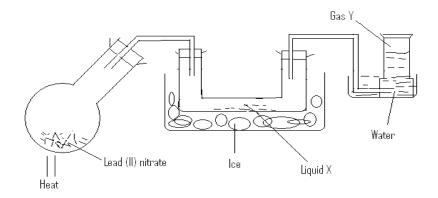
- 7. Starting with copper metal, describe how to prepare solid copper (II) carbonate. (3 marks)
 - 8. The diagram below shows a 'jiko' when in use. Study it and answer the questions that follow



For answers, contact/W...

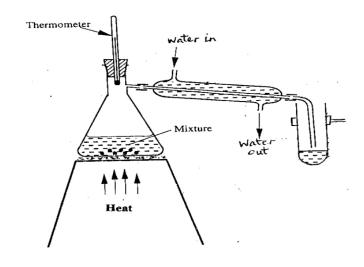
(a)	Identify the gas formed at region B	(1mk)
(b)	State and explain the observation made at region B	(2mks)

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



i)Identify liquid X	(1 mark)
ii)Describe the test for gas Y.	(1 mark)
iii)Write a balanced chemical equation for the reaction.	(1 mark)

10. The set-up represented below can be used to separate ethanol from its mixture with water.



(a) Identify an error in the set-up.	(1 mark)
(b) Name this method of separation.	(1 mark)
(c) What properties make it possible to separate ethanol from water b	by this method? (1 mark)
11. Describe how to distinguish between substances I and II .	(3 marks)
I.CH₃CH₃ II. HCCCH₃	· · ·
12. Element K has two isotopes ²⁰ K and ²² K with relative abundance of	f 90% and 10%

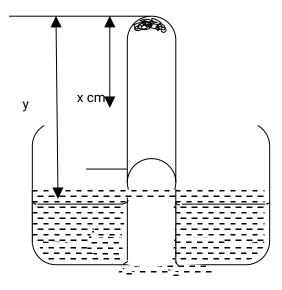
respectively.

	What are nark)	isotopes?	(1
		the relative atomic mass of element K.	(2 marks)
13. 0	Give one ap	oplication of calcium oxide.	(1 mark)
14.	Conside	er the diagram below. a b c	
	Name t	he regions labeled a, b, c.	(3 marks)
	a .		
	b .		
	С.		

15.	State	one	use	of:
	Otate	OIIC	auc	\circ .

a) Calcium nitrate	(1 mark)
b) Magnesium hydroxide	(1 mark)

16.. Some moist iron wool was placed in a test tube and the tube was inverted and set up as shown below.



The apparatus was left for one week. The water level rose and iron wool turned redbrown.

(i)	Write the chemical equation to show the rusting of iron.	(1 mark)
(ii)	Write the expression for an approximate percentage.	(1 mark)

((iii)	State	two simila	arities betv	ween rustin	g and com	nbustion.	
		(a)						(1 mark)
		(b)						(1 mk)
17. Sulp	hur bui	ns in a	air to form	a gaseous	s product.			
i) Wha	at is the	e colou	ur of the fl	ame of bur	ning sulphu	r?		(1 mark)
ii) Give through	=	uation	for the re	action that	takes place	when the	gaseous pro	oduct is bubbled (1 mark)
iii)State	one im	portar	nce of the	product fo	rmed in 17(ii) above.		(1 mark)
					abeled E to ns that follo	_	in the table	below. Use the
·				4				
			14.0	1.0	0.0	6.5	7.0	
	pН		14.0	1.0	8.0	0.5	7.0	
	Solut	ion	E	F	G	Н	I	
(• •		fy the solu n for your		ne highest c	oncentration	on of hydrox	ride ions. Give a (2 marks)
			,					,

	(b)	Which solution can be used as a remedy for acid indigestion in the stomach?(mark)	(1				
19. Four metals are labeled P, Q, R and S (not actual symbols). Metal P displaces me its oxide but cannot displace R from its oxide. Q when mixed with the oxide of R and reaction occurs. Arrange the metals in order of reactivity, starting with the most reactive.							
20. (1mk)	A cert	cain element Y has atomic number 15 and mass number of 31. Calculate the number of neutrons in the element.					
	(b)	Write the electron arrangement of the ion formed by element Y. (1n	nk)				
	(c)	How would the atomic size of the above element compare with another atom whose atomic number is 11 and mass number 23? Explain. (1n					

1st Ionisation energy kJ/mole

21. The table below shows the first ionisation energies of elements P and Q.

Element

Р	494	
Q	418	
		<u> </u>
What do these values sugg	est about the reactivity of P cor	npared to that of Q? Expla (2 marks)
		(2 marks)
e two factors that influenc	e ionization energy.	(1 mark)
is passed over heated iror	n filings in a combustion tube.	
is passed over heated iron ne the products of this reac	-	(2 mark)
•	etion.	(2 mark) (1 mark)
e an equation for the reaction	on that occurs.	(1 mark)
e an equation for the reaction	etion.	(1 mark)
e an equation for the reaction	on that occurs.	(1 mark) Diamond and graphite are
e an equation for the reaction	on that occurs.	(1 mark)
	e two factors that influenc	What do these values suggest about the reactivity of P cor

24. 30cm³ of 0.5M hydrochloric acid was used to neutralize 25cm³ of sodium hydroxide solution.

(2mks)

Determine the concentration of sodium hydroxide in grams per litre. (3 marks) (H=1, O=16, Na= 23)

25. The table below gives some information about the physical properties of four substances which are represented by letters. \boldsymbol{L} \boldsymbol{M} \boldsymbol{N} and $\boldsymbol{K}.$

Substance	Melting point	Heat of	Electrical	Conductivity
		vaporization	Solid	molten
L	High	High	Poor	Poor
М	High	High	Good	Good
N	High	High	Poor	Good
К	Low	Low	Poor	Poor

Select with reasons an element which is likely to be:

(i)	Copper metal		(1mk)
•••••		Ciliaan (iv) avida	
		Silicon (iv) oxide (1mk)	
		Potassium iodide	
		(1mk)	

26. a) Write balanced chemical equations for reactions between chlorine ar	nd; (2 marks)
i) Concentrated sodium hydroxide	
ii) Dilute sodium hydroxide.	
b) State one observation made when a gas jar of moist hydrogen sulphide gas jar of dry chlorine gas.	e is inverted over a (1 mark)
27.a) Hydrogen sulphide gas is bubbled through bromine water.	
i) Give two observations made.	(1 mark)
ii) Write an equation for the reaction that takes place.	(1 mark)
b) State the test for hydrogen sulphide gas.	(1 mark)
28.(a) State Gay-Lussac's law.	(1 mark)
b) When 100cm^3 of a gaseous hydrocarbon (C_xH_y) burns in 300cm^3 of oxy carbon(IV)oxide and 200 cm^3 of steam are formed.	gen, 200cm ³ of
Deduce the formula of the hydrocarbon.	(2 marks)

FORM THREE APRIL EXAMS 2020 CHEMISTRY PAPER TWO

233/2

CHEMISTRY

PAPER 2

TIME:2HOURS

FORM THREE APRIL 2020

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 examination in the spaces provided.
- Answer all the questions in the spaces provided.
- All working **must** be clearly shown where necessary.
- Mathematical tables and electronic calculators can be used.

For Examiners Use Only

Question	Maximum score	Candidate's score
1	13	
2	11	
3	12	
4	10	
5	11	
6	11	
7	12	
Total	80	

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.

1. The table below shows the elements in the third period, the oxides of the third period and their properties. The letters are not the actual symbols of the elements. Study the information and answer

the questions that follow:

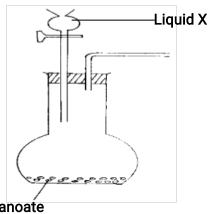
Element	Atomic number	Atomic radius(nm)	Oxide	State at RT	oxide melting point °C
М	11	0.191	M ₂ O	Solid	1132

N		0.160	NO	Solid	2852
Р	13	0.130		Solid	2072
Q	14	0.118	QO ₂		1610
R		0.110		Solid	580
S	16	0.102	SO ₂		-75
Т	17	0.099	TO ₂	Gas	-60
V	18	0.095	X	X	Х

(3mks		complete the table above			
(2mks		plain the trend in the atomic radius across the period	d		
(1mk)	(iii) Explain why the oxide of element V does not exist				
(2mks		ne the type of structure and bond in the following ox	ide		
	Oxide	Structure	Bond type		
	NO				

TO ₂	

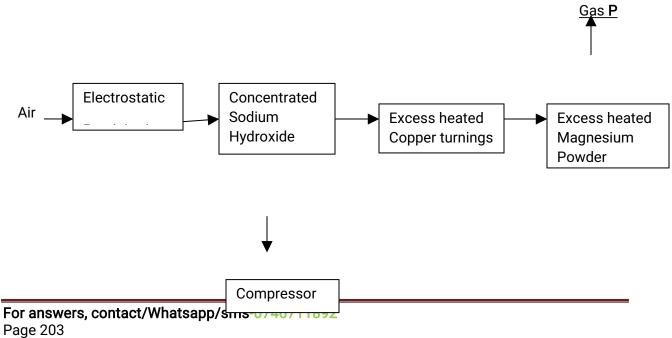
- ii) Using dots and crosses to represent electrons. Show the bonding in the oxide, QO_2 (2mks)
- (c) (i) Explain why elements P conducts electricity but T does not (1mk)
- (ii) The oxide of ${\bf P}$ reacts both acids and alkalis. Give the name of this kind of oxide (1mk)
 - 2. The set up below was to be used to prepare carbon (II) oxide in the laboratory. Use it to answer the questions that follow.

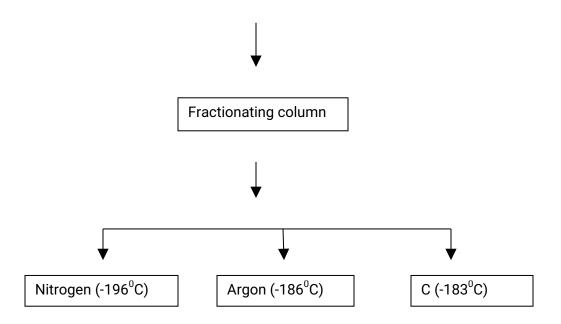


Sodium Methanoate

	a) Complete it in order to collect the gas. (3mks)
	(b) Which is the appropriate identity of the liquid X ? 1mk)
carbo	c) Explain how you can chemically distinguish unlabelled gases of carbon (II) oxide and on (IV) Oxide respectively.
(2mk 	s)
(2mk	(d) Using dot (●) and crosses (x) draw the structure of Carbon (IV) oxide. s)
(100cm³	e) Calculate the volume of oxygen that will be required for complete combustion of of carbon (II) oxide.

3. Air was passed through several reagents as shown in the flow chart below.





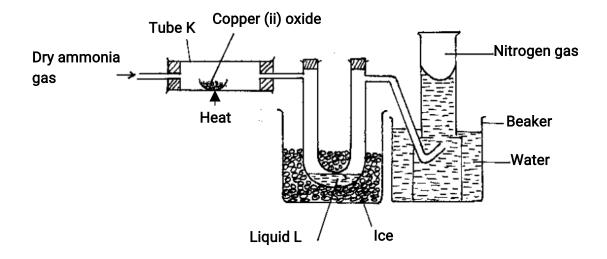
a)	Name the major components of air. (2mks)
b)	Write an equation for the reaction which takes place in the chamber with:

- (i) Concentrated sodium hydroxide. (1mk)
- (ii) Excess heated copper turnings. (1mk)

	(iii)	Excess heated magnesium powder. (1mk)
(c)		one gas which escapes from the chamber containing magnesium powder. Give an for your answer. (2mks)
(d)	Name (1mk)	the substance that was eliminated by electrostatic precipitation.
(e)	Name (1mk)	a reagent that can be used in place of concentrated sodium hydroxide.
(f)	Name	substance C.
	(1mk)	
(g)	State	<u>two</u> uses of gas C .
	(1mk)	
•••••	The dia	agram below shows the set up that can be used to obtain nitrogen gas in an

experiment carried out by form 3 of Inaya Sec school.

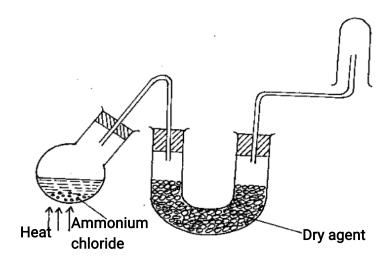
4.



i) How is the ammonia gas from this process dried?
(1mk)
(ii) Name liquid L ?
(1mk)
(iii) What observation would be made at tube K at the end of the experiment?
(1mk)
(iv) Write an equation for the reaction that took place in the tube K .
(1mk)
(v) At the end of the experiment the pH of water in the beaker was found to be 10.0.
-xplain (1mk)

•••••	•••••••	

(b) A student set up the following apparatus for preparing jars of dry ammonia but found that no gas collected in the gas jars, although a reaction occured in the flask.



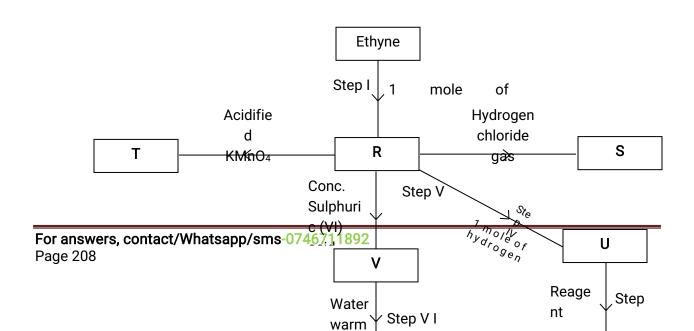
(i) Explain why th	eir was no gas collected?
(1mk)	
(ii) The following	alteration were made
•	Using a mixture of ammonium chloride and an alkali, Ca(OH)2 instead
	of NH ₄ CL
•	The flask was made to slope with neck downward.
State the reasor	n for each alteration above
(2mks)	

(iii)When	ammonia gas is passed into a jar of hydrogen chloride gas, white fumes are		
formed.	Explain with an aid of equation of reaction.		
(2mks)			
(iv) Amm	nonia decompose if sparked electrically, what would you expect to be the		

(iv) Ammonia decompose if sparked electrically, what would you expect to be the products of the decomposition?

(1mk)

5. Study the flow diagram **below** and answer the questions that follow.

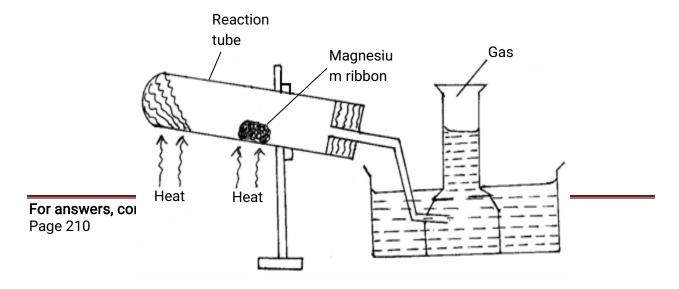


(a) (3 marks)	Name substances.
	R
	S
	T
	U
	V
	W
(b)	Name reagent X and the condition required for the reaction in Step VII to occur.
(2 marks)	realist reagon, and the condition required for the reaction in Step 411 to occur.

For answers, contact/Whatsapp/sms-0746711892
Page 209

(c	c) Nan	ne the t	ype of reaction that occurred in
		(i)	Step I(1mrk)
(c	d)	(ii) Name	Step VII (1mark) the reaction that occurred in
		(i)	Step II(1 mark)
		(ii)	Step IV (1 mark)
(e (2 marks	•	Draw a	nd name two structural isomers of C ₄ H ₁₀ .

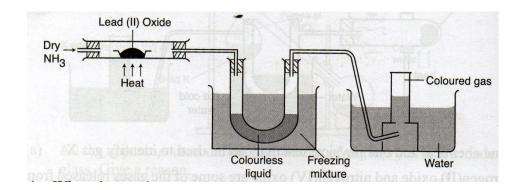
6. The set-up **below** was used to prepare and collect gas **X**. During the experiment cleaned magnesium ribbon was strongly heated before heating the wet glass wool.



(a) (1mrk)	Name gas X	
(b)	Why is magnesium ribbon cleaned before it is used? (1 mark)	
(c)	State one observation that would be noted in the reaction tube.	
(1 mar		
(d)	Write the equation for the reaction in the reaction tube.	(1 mark)

(e) (1 mai	State one industrial use of the solid product formed in the reaction tube.
(f) (2 mar	What precaution should be taken at the end of experiment? Explain.
(g)	At the end of the experiment 96.0cm^3 of gas X were collected at 10°C and 1 atmosphere pressure. (Mg = 24, M.G.V = 22.4, T = 0°C at stp, P = 1 atmosphere at stp).
	(i) Determine the volume gas X would occupy at s.t.p?(2 marks)
	(ii) Calculate the mass of magnesium ribbon used Mg = 24. (2 marks)

7. (a) Dry ammonia gas is passed over heated lead (II) oxide in a combustion tube as shown in the diagram.



(i) What observation would be made in the combustion tube? Explain.	(2mks)
(ii) Write the reaction taking place in the combustion tube.	(2mks)
(iii) Outline a chemical test you would use to identify the colourless liquid collected i (2mks)	n the u-tube.
(iv) Name the colourless gas. (1mk)	

mariamkerubo2020@gmail.com (v) Name one industrial use of colourless gas. (1mrk) (vi) State one industrial use of ammonia. (1mk) (b) When compound x is heated, a red-brown gas is evolved and a yellow residue is left on cooling.Name (i) The red-brown gas (1mrk) (ii) Name the chemical test for gas (i) above (1mrk) (iii) The ions present in the residue. (1mrk) (iv) Compound X. (1mk)

CHEMISTRY PAPER THREE

233/3

CHEMISTRY

PAPER 3

THEORY

TIME: 2 HOURS

FORM THREE APRIL 2020

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

INSTRUCTIONS TO THE CANDIDATES

- Write your name school and index number in the spaces provided
- Sign and write the date of examination in the spaces provided
- Answer all the questions in the spaces provided.
- You are not allowed to start working with apparatus for the first 15minutes of the 2 ¼ hrs allowed for this paper. This time is enable you to read the question paper and make sure you have all the chemicals and apparatus that you may need
- Mathematical tables and electronic calculators may be used.
- All working **MUST** be clearly shown where necessary.
- Mathematical tables and electronic calculator may be used.

FOR EXAMINERS USE ONLY

QUESTION	MAX. SCORE	CANDIDATE'S SCORE
1	20	
2	14	
	06	
Total Score	40	

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

You are provided with: 1.

- Solid A: 0.5g of metal carbonate M₂CO₃
- Solution B: 0.2M sulphuric (vi) acid solution
- Solution C: sodium hydroxide solution

You are required to determine:

- ✓ The relative formula mass of M₂CO₃
- ✓ Relative atomic mass of M

PROCEDURE I

Fill the burette with solution B. Pipette 25cm³ of solution C and transfer into a conical flask. Add two drops of phenolphthalein indicator. Titrate against solution B from the burette. Repeat two more times and record your results in table 1.

Table 1

Titre	i	li	iii
Final burette reading (cm ³)			
Initial burette reading (cm³)			
Volume of solution B used (cm ³)			

(4mks)

Determine the average volume of solution B used. (a) (1mk)

(b) Calculate the moles of sulphuric (vi) acid that reacted.

(1mk)

(c)	Calculate the concentration of sodium hydroxide solution C.
(3mks)	

PROCEDURE II

Using a 100ml measuring cylinder, measure 100cm³ of solution B and transfer into a clean conical flask. Add the whole of solid A to the solution B in the conical flask. Shake to dissolve solid A until no more effervescence occurs. Label the resultant solution as D.

Pipette 25cm³ of solution C and transfer into a conical flask and add two drops of phenolphthalein indicator. Fill the burette with solution D. titrate solution C against solution D from the burette. Repeat two more times and record your results in table II.

Table II

Titre	i	ii	iii
Final burette reading (cm ³)			
Initial burette reading (cm³)			
Volume of solution D used (cm ³)			

(4mks)

(a)	Calculate:
	(i) The average volume of solution D used. (1mk)
	(ii) The moles of solution D in d (i) above. (2mks)
	(iii) The moles of H ₂ SO ₄ in 100cm ³ of solution D . (2mks)
	(iv) The moles of in H ₂ SO ₄ 100cm ³ of solution B . (1mk)
	(v) The number of moles of the acid (solution B) that reacted with the carbonate. (1mk)

	(vi) The moles of carbonate in 0.5g(2mks)	of the carbonate.
	(e) Calculate;	
	(e) Calculate,	
	(i) The relative formula mass of the (2mks)	carbonate.
	(ii) The relative atomic mass of M . (1mk)	
You	are provided with solid Q . carry out the	e tests below. You should identify any
	es evolved. Record your observations a	
(a)	Place half of solid Q in a test tube a	nd heat strongly.
	observation	inference
-		

2.

	(2mks)	(1mk)
(b)	Place the remaining solid Q in a test Divide the resultant mixture into two	tube and add 3cm³ of distilled water. portions
	observation	inference
	(1mk)	(½ mk)
(c)	To the first portion add aqueous am	monia drop wise till in excess.
	observation	inference
	(1mk)	(1mk)
(d)	-	itrate solution followed by dilute nitric
acio		
	observation	inference

(2mks)	(1mk)
(Ziinto)	()

- 1. You are provided with solid P. carry out the tests below and record your observations and inferences in the table below.
 - a) Place half of solid P in a clean spatula and ignite.

observation	inference
(1 ¹ / ₂ mks)	(¹ / ₂ mk)

- b) Transfer the remaining solid P into a test tube and add about 4 cm³ of distilled water and shake. Divide the resultant mixture into two portions.
 - i. To the first portion add two drops of acidified potassium manganate (vii)

observation	inference
(1mk)	(¹ / ₂ mk)

ii. To the second portion add two drops of acidified potassium dichromate (vi)

observation	inference
(1mk)	(¹ / ₂ mk)

FORM THREE APRIL EXAMS 2020 HISTORY AND GOVERNMENT PAPER ONE

HISTORY PAPER 1 FORM THREE APRIL – 2020 TIME: 2 ¹/₂ HOURS.

INSTRUCTIONS TO STUDENTS

. a) This paper consists of three sections A, B and C.

b)	Answer ALL the questions in section A, THREE in section B and TWO questions from
	section C

SECTION A: 25 MARKS

	Answer all the questions in this section.
1.	Give the <i>main</i> source of information on unwritten history (1mark)
2.	Give <i>two</i> functions age set among the Agikuyu in pre-colonial Kenya. (2 marks)
3.	Give <i>two</i> ways of interaction between Kenya societies in the 19 th century. (2 marks)
4.	Identify the name of the council of elders among Mijikenda community. (1 mark)
5.	Why was 1957 elections in important in history of Kenya. (1 mark)
6.	Give <i>two</i> contributions of the early missionaries in the field of education (2 marks)
7.	Give <i>two</i> characteristics of a good constitution. (2 marks)

8.	Identify <i>two</i> special groups whose rights are protected by Kenyan constitution. (2 marks)		
9.	State <i>two</i> reasons why colonial government encouraged settler farming in Kenya (2 marks)		
10.	Identify <i>two</i> communities that showed mixed reactions in Kenya.		
	(2 marks)		
11.	Identify <i>one</i> reason why trade unions were not formed in Kenya by 1914. (1 mark)		
12.	Name <i>two</i> cash crop that Africans were prohibited from growing in colonial Kenya. (2 mark)		
13.	Name the body in charge of election in Kenya. (1 mark)		
14.	Identify <i>two</i> features of independent schools and churches in colonial Kenya. (2 mark)		
15.	Give the political parties that represented Kenya during the 2 nd Lancaster House Conference		
	of 1962.(2 mks)		
	<u>Section B (45 marks)</u>		

Answer any three questions from this section

16.	a) Giv (3 marks)	e three reasons why early visitors came to the East African Coast.
(12	(b) Ex	xplain six factors which led to the decline of Coastal towns after 1500A.D
17.		e <i>five</i> reasons why the Maasai collaborated with the British during the colonial Kenya(5 marks)
(10	(b) Ex marks)	plain <i>five</i> reasons why the Nandi resisted the British for so long.
18.	(a) (5 marks)	Identify <i>five</i> results of Devonshire White Paper of 1923.
	(b) (10 ma	Explain <i>five</i> consequences of colonial land policies in Kenya. arks)
19.	(a) (5 marks)	Give <i>five</i> characteristics of early political organizations in Kenya.
	(b) Ex period. (10 marks	plain five problems faced by trade union movements in Kenya during colonial

Section C (30 marks)

Answer any two questions from this section

20.	(a) (5 marks)	Name <i>five</i> members of African Elected Members Organization.
	(b)	Describe <i>five</i> impacts of the First Lancaster House Conference of 1960. (12 marks)
21.	independe	ate t<i>hree</i> methods that were used by African Nationalist during the struggle for nce.(3 marks) plain the role of women in the Mau Mau movement. s)
22.	(a) (5 marks)	Identify <i>five</i> levels of conflicts
	(b)	Explain <i>five</i> factors that promote national unity in Kenya.

FORM THREE APRIL EXAMS 2020 HISTORY AND GOVERNMENT PAPER TWO

311/2 HISTORY & GOVERNMENT FORM THREE PAPER 2 TIME: 2 ½ HOURS FORM 3

HISTORY PAPER 2 FORM THREE APRIL – 2020

> 311/2 History & Government Paper 2 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

• This paper consists of three sections; A, B and C. FOR EXAMINER'S USE ONLY

	QUESTION	SCORE
SECTION A	1 – 17	
	18	
SECTION B	19	
	20	
	21	
SECTION C	22	
	23	
	24	
TOTAL SCORE		

SECTION A (25 Marks (Answer ALL the Questions in this section)

1.	State <i>two</i> arms of Government. Mark)	(2
2.	Identify <i>one</i> theory explaining the origin of man.	(1 Mark)
3.	Name <i>two</i> species of Homo sapiens. Marks)	(2
4.	Name any <i>two</i> centers of Agricultural Revolution.	(2 Marks)
5.	State the <i>two</i> main methods of trade. Marks)	(2
6.	Give <i>two</i> examples of regional trade. Marks)	(2
7.	Identify <i>two</i> means of transport that comprised early land transport. Marks)	(2
8.	Identify the sailing ship used by the Greeks.	(1 Mark)
9.	Identify <i>one</i> early source of energy.	(1Mark)\
10.	Give the major limitation of using water as a source of energy.	(1

Mark) 11. List *two* factors for the growth of Meroe. (2 Marks) 12. Identify *one* historical building in Kilwa. (1 Mark) 13. Identify the symbol of national unity among the Shona. (1 Mark) 14. State *two* sources of the principles on which the British constitution is made. (2 Marks) 15. Name *one* missionary society that came to spread Christianity in Africa. (1 16. State one function of Emirs in Northern Nigeria. (1 Mark) 17. Who was the first Prime Minister of India. (1 Mark) SECTION B (45 Marks) (Answer *Any Three* Questions from this section) 18. (a) State *five* stages of evolution of man before Homo erectus. (5 Marks) (b) Describe the way of life of human beings during the late stone age period. (10 Mark) 19. (a) Give *three* negative impacts of scientific inventions in agriculture. (3 Marks) (b) Explain factors that have hindered industrialization in Africa. (12 Marks) 20. (a) State *five* methods used by the British to colonize Buganda kingdom. (5 Marks) (b) What benefits did the Buganda people get as a result of their collaboration? (10 Marks) 21. (a) How did the attainment of independence of Ghana contribute to liberation of other African countries? (3 Marks)

(b) Describe African Nationalists activities that intensified the struggle for independence

SECTION C (30 Marks)

in South Africa. (12 Marks)

(Answer *Any Three* Questions from this section)

22. (a) Identify the privileges enjoyed by assimilated Africans in the four communes in Senegal

(5 Marks)

- (b) Explain reasons why French policy of assimilation failed. (5 Marks)
- 23. (a) Outline three features of direct rule in Zimbabwe. (3 Marks)
 - (b) What were the disadvantages of indirect rule system of administration? (12 Marks)
- 24. (a) State the terms of the Rudd Concession treaty of 1883. (3 Marks)
 - (b) State six grievances of the Ndebele and the Shona during the Chimurenga war of 1896-1897

(12 Marks

FORM THREE APRIL EXAMS 2020 **GEOGRAPHY PAPER ONE(312/1)**

FORM THREE APRIL 2020

312/1

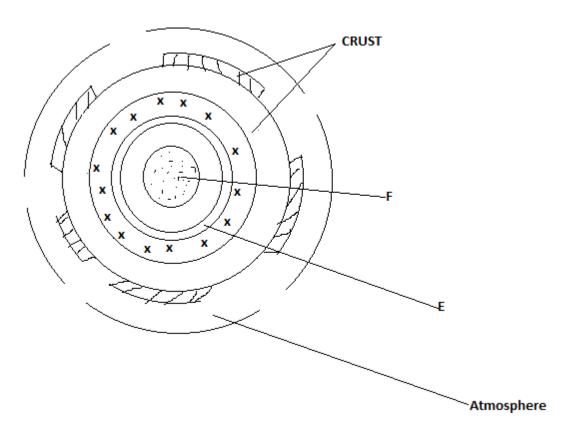
GEOGRAPHY

PAPER 1

TIME: 2 ¾ HRS

	mariamkerubo2020@gmail.com	
Answer All Questions		

1. The diagram below shows the structure of the earth. use it to answer (a)



- (a) Name the parts marked E and F (2mks)
- (b) State three characteristics of the atmosphere (3mks)
- 2 (a) Identify two forms of rock metamorphism (2mks)
 - (b) State the exclusive equivalent of the following intrusive igneous rocks
 - (i) Granite (1mk)
 - (ii) Diorite (1mk)
 - (iii) Gabbro (1mk)

3	(a)	What is a seismic wave? (2m)	ks)
	(b)	State three ways in which earth quakes affect human activities.	(3mks)
4.	(a)	Differentiate between illuviation and salinization.	(2mks)
	(b)	State three importance of water as a soil property.	(3mks)

5 (a) Identify two types of deltas. (2mks)

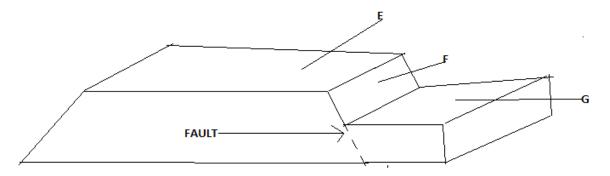
State three conditions ideal for the formation of a delta (b) (3mks)

6. Study the data in the following table and answer questions (a) and (b). Kenyas leading imports by value (Ksh Million)

Crop/year	Wheat	Maize	Rice	Coca
2006	5400	4700	2000	700
2007	7200	3800	2600	420
2008	6400	1400	1900	580
2009	6800	4600	2400	800

- Calculate the percentage increase in expenditure on importation of wheat (a) in the year 2006 and 2007 (2mks)
- (b) Draw a compound bar graph to represent the Kenya's leading import crops by value between 2006 and 2009 (8mks)
 - State two advantages of using compound bar graphs to represent (ii) data (2mks)
- (c) State four reasons why Kenya imports maize, wheat and rice and she still produces them? (4mks)
 - State physical conditions favouring wheat growing in Kenya (3mks)
 - (ii) Explain three reasons why Canada produces more wheat than Kenya (
- 7 Differentiate between fissure and vent eruption (2mks)
 - (b) Describe how the following features are formed
 - (i) **Batholiths** (6mks)
 - (ii) Volcanic plug (5mks)

- (c) Explain three negative effects of volcanicity on human activities (6mks)
- (d) You are planning to carry out a field study on features formed by volcanicity on the landscape
 - (i) Formulate two null hypotheses for the study (2mks)
 - (ii) Name two drainage features you are likely to study (2mks)
- (iii) State two methods you would use to record information during the study. (2mks)
- 8. (i) What is reverse fault? (2mks)
 - (ii) The diagram bellow represents an area affected by faulting Name the parts marked E,F and G (3mks)



- b Describe the processes involved in the formation of the following features
 - (i) Fault steps (5mks)
 - (ii) Rift valley by anticlinal arching
- c Explain four ways in which block mountains influence climate
- 9. Name two mountains in East Africa where congelifraction is common (2mks)
 - (b) Describe the following types of weathering
 - (i) Pressure release (5mks)
 - (ii) Hydration (4mks)
 - (iii) Oxidation (4mks)

(c)	Expl	ain three ways in which plants cause weatherings	(6mks)
(d)	Wha	t is an avalanche?	(1mk)
	(ii)	State three effects of avalanche	(3mks)

GEOGRAPHY PAPER TWO(312/2)

FORM THREE APRIL 2020

312/2

GEOGRAPHY

PAPER 2

TIME: 2 ¾ HRS

Answer All Questions

1.	Name three patterns of human settlements.							(3mks)	
2.	i)	List ar	ny two p	roducts f	rom Jua	kali indu	ustry in k	Kenya exported to other	countries
									(2mks)
	ii)	Name	two rer	newable s	ources	of energy	used in	Kenyan industries.	(2mks)
3.	a)	Name	three s	urfaces tl	nat are re	eclaimed	l in Keny	a.	(3mks)
(3mks	b)	Identii	fy the m	ethod of	reclama	tion used	d in each	surface mentioned in 3	(a)
4.	Explai	n how t	he follo	wing prac	tices he	lp in soil	conserv	ation	
	i)	Mulch	ing						(2mks)
	ii)	Terrac	cing						(2mks)
5. (5mks	a) s)	Descr	ibe how	deep-sha	aft minin	g takes _l	place.		
	b)	Name	three p	roducts f	rom an c	oil refine	ry other t	han petrol.	(3mks)
					SEC	CTION B			
		Ans	wer que	stion 6 aı	nd any o	ther two	question	ns in this section.	
6.	The ta	ble belo	ow shov	vs milk yi	eld in kil	ograms	per dialy	cow in Denmark betwee	en 1990
and 19	995.								
Year		1990	1991	1992	1993	1994	1995		
Yields	in kg	5243	6693	7398	7610	7792	7946		
Denm	(a) rk,	(i)	Draw a	a divided	circle of	radius 3	-5cm to] represent the milk yield	in

(ii) State two advantages of using the divided circle to represent data (2mks)

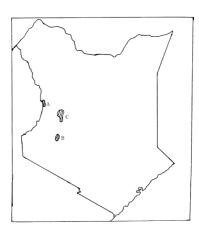
(2mks)

(iii) Name two other methods, apart from the divided circle, that could be used to represent the above data. (2mks)

Show all your calculations

	(b)	(i)	Explain $\underline{\text{three}}$ physical factors that have favoured farming in	n Denma	ark
(6mks)					
		(ii)	State three problems facing dairyFarmers in Kenya		(3mks)
	(c)	Explain	two reasons why beef farming is more developed in Argen	tina thar	n in
Kenya.	(4mks)				
7	(a)	(i)	State any two forms in which minerals occur	(2mks)	
		(ii)	Name any three places where limestone is mined in Kenya	(3mks)	
	(b)	Explain	how the following factors influence the exploitation of a m	ineral	
		(i)	Market	(2mks)	
		(ii)	The quality of ore		(2mks)
		(iii)	Technology		(2mks)
	(c)	(i)	Name two provinces in south Africa where gold is mined		(2mks)
		(ii)	Explain <u>three</u> problems facing gold mining in south Africa		(6mks)
	(d)	Describ	be the processing of diamond in south Africa.		
8 mks)	(a)	(i)	Apart from oil, name <u>two</u> sources of non-renewable energy		(2
		(ii)	List <u>three</u> advantages of solar energy.	(3 mks)	
	(b)	Explain	<u>four</u> problems encountered in mineral exploitation in Kenya	a. (8 mk	s)
	(c)	Explain	the effects of over-relience on oil as a source of energy.	(8 mks)	
	(d)	State <u>f</u>	<u>our</u> methods the Government of Kenya uses to manage and	l conser	ve her
	energy	resourc	ces.	(4 mks)	1

- 9 a) i) define the term forestry. (1 mark)
- ii) Give three differences between natural forest and planted forests.(3 marks)
 - b) Explain FOUR causes of forest depletion in Kenya today. (8 marks)
 - c) i) From the map below, give the names of the forests marked A, B ad C



ii)State FOUR measures that are being undertaken by the Kenya Government to conserve forests.

(4

marks)

d)Explain THREE factors favouring the exploitation of softwoods inCanada(6mks)

FORM THREE CHAMPIONS APRIL EXAMS 2020 CHRISTIAN RELIGIOUS EDUCATION PAPER ONE

ANSWER ALL THE FIVE QUESTIONS

1.	(a)	Mention five versions of the Bible used in Kenya today	(5mks)
	(b)	Explain four differences between the first creation account and the secon account.	nd creation (8mks)
	(c)	State the effects of translating the Bible into local languages.	(7mks)
2.	a)	How did the early life of Moses prepare him for future leadership?	(6mks)
	b)	Outline the conditions given by God to the Israelites during the renewal of covenant.	the Sinai (8mks)
	c)	What do Christians learn about the nature of God from the exodus?	(6mks)
3.	(a)	Explain <u>four</u> ways in which King Solomon fulfilled Samuel's prophecy aga kingship in Israel. (8)	inst nks)
	(b)	Outline God's promises to King David through Prophet Nathan. (6r	mks)
	(c)	Give \underline{six} ways in which Christians can deal with challenges they face society. (6mks)	e in moderr
4.	(a)	Outline six characteristics of true prophets in the Old Testament.	(6 marks)
	(b)	State four ways in which the rich oppressed the poor during the time of Prop	
		marks)	(8
	(c)	Give six reasons why Christians find it difficult to help the needy in soci marks)	ety today. (6
5	(a)	Outline the message of Jeremiah in his letter to the exiles Jer 20:1 –	14

		(7mks)
(b)	Identify four similarities in the life and experience of Nehemiah and Jesus.	(8mks)
(c)	Give five reasons why it is difficult to have reforms in Kenya. (5mks)	

FORM THREE APRIL EXAMS 2020 CHRISTIAN RELIGIOUS EDUCATION PAPER TWO

ANSWER ALL THE FIVE QUESTIONS

- (a) Outline what Angel Gabriel revealed about Jesus when he announced his birth to Mary. (6mks)
 - (b) From the story of the early life of Jesus up to twelve years, identify ways through which he is seen as coming from a poor background. (8mks)
 - (c) Give reasons why children should take part in church activities. (6mks)
- 2. (a) Describe the incident when Jesus was rejected at Nazareth. (Lk4:16-30) (7mks)
 - (b) Give <u>four</u> reasons why Jesus faced opposition from the Pharisees in Galilee. (Lk. 5:12 6:11) (8mks)
 - (c) State <u>five</u> ways in which church leaders can respond to those who oppose them in their work. (5mks)
- 3. (a) State **five** reasons why Jesus celebrated the last supper with his disciples. (5mks)
 - (b) Explain <u>five</u> revelations about the disciples of Jesus during the last supper.(10mks)
 - (c) What lessons can Christians learn from the testimony of the repentant thief in Luke 23: 9-43. (5mks)
- 4. (a) With reference to John 15: 1-10 outline the teaching of Jesus on the "vine and the branches." (8mks)
 - (b) How can Christians promote unity among themselves? (6mks)
 - (c) Give <u>six</u> ways in which the Holy Spirit manifests himself among Christians today. (6mks)
- 5. (a) Explain the traditional understanding of marriage. (8mks)
- (b) Identify six forms of irresponsible sexual behavior in the society today. (6mks)
- c) outline 6 method used in choosing a marriage partner in African Traditional society

6 marks

FORM THREE APRIL EXAMS 2020 COMPUTER STUDIES PAPER ONE

COMPUTER STUDIES			
FO	ORM THREE APRIL 2020		
45	i 1		
(TI	heory)		
2 ¹ /	/ ₂ hours		
<u>IN</u> :	STRUCTIONS TO CANDIDATES	<u>S</u>	
Th	nis paper has two sections; A a	nd B .	
Answer ALL the questions in section A .			
An	ıswer question 16(compulsory	and any other THREE question	ns from section B .
All	answers should be written in t	the space provided on the ques	tion paper.
		For Official Use Only.	
	SECT.	Question.	Score
	A	1 – 15	
		16	
		17	

	18	
	19	
В	20	
	Total Marks	

This paper consists of 11 printed pages Candidates should check the question paper to ensure that all the Printed pages are printed as indicated and no questions are missing.

SECTION A (40 Marks)

		Answer all the questions in this section in t	<u>ne spaces provided</u> .			
1.	Define the following.					
	(2 marks)					
	i)	Information.				
	ii)	Information Systems.				
2.	List tw	/o differences between analogue and digital da	ta.	(2		

	marks)		
		the term data processing as used in computer science.	(1
4.	One of primary	•	What is a
	i)	ntiate between the following. Online and Batch processing. (2 marks)	
	ii)	Multitasking and Multiprocessing. marks)	(2

	i) Cold booting and Warm booting. (2 marks)	
	Mention any two examples of pointing input devices arks)	(2
(ii) ma	Explain the term "Disk formatting"	(2
	ine an operating system narks)	
8. Exp	lain TWO characteristics of the 5 th generation computers.	(2

9.	State two functions performed by the UPS	(2 marks)
		
10 i)	D. a) Explain why the following controls should be implemented for computer systems (2 marks) Back-ups	r based
••••••		
ii <u>)</u>	Passwords	
	ii) Work out the binary subtraction 10101 ₂ -110 ₂ marks)	(2
	Mention 2 advantages and 2 disadvantages of Real-Time processing. arks)	

12. a) What i mark)	s a word processor?	(1
b) Outline a	any 4 editing features of a word processor.	(2 marks)
13. List 3 :	advantages of using electronic spreadsheets over manual w	
14. Explain	the meaning of the following terms. i) Logical file	(1 mark)

ii) Physical file	(1mark)	
15. Give one example for each of the following types of function use	ed in spreadsheet (2 marks)	
i) Statistical		
ii) Mathematical		

SECTION B (60 MARKS)

Answer question 16 and any other 3 questions.

16.	a) What is programming?	(2 marks)
	ferentiate between the following terms	(4
i) Co	ompiler from interpreter	
ii) S	Source program from object program	
iii)	Pseudo-code from flowchart	
iv)	High level computer language from low-level computer language	

	c) i) Explain the difference between Random Access Memory and Read Only
Mei	mory
	(2 marks)
ii) 🛭	Define;
(4 marks)	
i)	File
ii)	Record
iii)	Form
iv)	Field

d) Explain three effects of introduction of ICT in workplaces. marks)	(3
17. a) What is a database?	(1 mark)
b) Differentiate a table and a query as used in database marks)	(2
c) State and briefly explain any two-database models marks)	(4
d) List down the six stages in program development. marks)	(6

e) State two types of errors associated with program testing and debugging. (2 marks) 18. The teacher has bought a computer system. The hardware items include 800MHz processor, 640MB of RAM, a sound card, speakers, a monitor, a keyboard, a 12 GB hard disk, a floppy disk drive, a CDRW drive, a mouse, a modem, an inkjet printer and a joystick. The software supplied included: an OS, a BASIC interpreter and the following packages: spreadsheets, graphics, word processor, art database and games. a) List three input devices from the given specifications. (3 marks) b) Explain the meaning of the following (6 marks) i) 800Mhz

	ii) 	640 MB
	iii)	12GB
c)		me of the students in the school use the computer to do homework. Name the
		kages used to:-
	i)	Do calculations and draw graphs (1 mark)
	ii)	Write an essay (1 mark)
	:::\	Make a parter
	III)	Make a poster (1 mark)
		7 .

	i)	Students enjoy playing noisy computer games Which hardware items do you need to produce sound? marks)	
		Which input device is used only for playing games? (1 Mark)	
	•••••		
19. (a) marks)		ain the following terms as used in computer science.	(3
	(i)	Hacking.	
	•••••		
	(ii)	Data privacy.	
	•••••		
	•••••		••••••
	(iii)	Data integrity.	

(b) Computer virus is one of the major data security threat in the world today. i) What is a virus (1 mark) ii) State any three ways virus can transmitted (3 marks) iii) Explain any four measures that should be taken to prevent data loss through viruses. (8 marks) iv) Differentiate mechanical data processing method from electronic data (2 marks)

processing method.	
v) Differentiate between data security and data privacy.	(2
marks)	·
ilidiks)	