CORONA SERIES EXAMS

FORM 1 QUESTIONS

CORONA SERIES FORM ONE QUESTIONS

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NAME…….…….ADMNO……CLASS……..

C.R.E. FORM ONE

1HR 30 Min

Answer all the questions

1a) Identify six deuterocanonical books found in catholic Bible (7mks)

b) Give six uses of the bible in Christian life (6mks)

2a) Give the attributes of God from creation accounts (8mks)

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b) What are the differences between first account and the second account of creation (5mks)

3a) Identify eight events that took place during the Passover night (8mks)

b) State the problems faced by Israel during exodus (6mks)

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4a) Give the achievements of King David (6mks)

b) Outline six roles played by Prophet Samuel (6mks)

5a) Identify the commandments king Ahab and jezebel broke (5mks)

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b) Give the reasons why Elijah faced danger and hostility in Israel (4mks)

6a) Outline the promises given to Abraham by God (7mks)

b) State the covenants in the modern life (5mks)

7a) Give the order of hierarchy of beings (7mks)

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b) List down the specialist in Traditional African community (5mks)

8a) State the factors contributing to harmony and mutual responsibility in the African community (5mks)

b) What are the attributes of God according to African people (6mks?)

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Name: ……..…… Adm no.: ……..…

ENGLISH

FORM ONE

TIME: $2^{1}/_{2}$ hrs

INSTRUCTIONS TO CANDIDATES

(a) Write your name and admission number in the spaces provided at the top of the page.
(b) Write the date of the examination in the spaces provided above.
(c) Answer all the questions in the spaces provided.
(d) The paper consists of 8 printed pages.
(e) Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
(f) Ensure your work is neat.

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	STUDENT'S SCORE
COMPREHENSION	20	
POETRY	10	
CLOZE TEST	10	
ORAL SKILLS	20	
GRAMMAR	20	
TOTAL	80	

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1. FUCTIONAL WRITING

Weather conditions in your present school is not favourable for you. You feel sick all the time and this has affected your performance. Write a letter requesting for admission in another school.

Explain your condition, and why you would like to transfer to that new school. (10mks**)**

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

A new system modeled on Continuous Assessment Tests [CATs] will soon replace ranking of teachers,learners, schools and regions in both KCPE and KCSE according to the Cabinet Secretary for Education Science and Technology.

In the meantime, the ministry has constituted a team of experts to work out on an elaborate, credible and all-inclusive standard system that the management of schools would use in conducting the tests from the moment learners join school to the time they complete studies. This will include collaboration with the Education Ministry, the Examinations Council, Parents Association and Teachers Unions.

F F F in all areas of learning, including co-curriculum activities would count towards the final results when one leaves school either after KCPE or KCSE examinations. To achieve the best possible grading and desired results, those charged with implementing the new program would have to consider all the important aspects of administering CATs at various levels of learning and teaching. The new system which would be implemented any time soon will serve as an alternative after the recent banning of ranking on performance of schools and candidates in national examinations, though there have been calls from a section of parents, Kenya National Union of Teachers and The private Schools Association to have the Minister rescind his decision on ranking.

It is worth noting that in the CATs program, learners are examined continuously during their education and results considered after leaving school. It is an evaluation conducted over time; in other words, you are examined right through your learning process and not after the learning process [summative evaluation].By doing this assessment, you can track the improvement of the learner; you will be able to give more support and guidance and the learner will have more opportunities to improve.
It has also been established that CATs can provide early indicators of likely performance of learners, something that can be of great help to the students themselves. It can also provide details of what has been learned at a particular stage of the course.

The CS said that after working out the new grading system for KCSE and KCPE candidates to be used by schools, the system would become a policy where KNEC will be left with no other choice but to make it operational to end the public outcry on scrapping franking of schools teachers, candidates and regions. However, we are waiting to see if the teachers, some of whom have been accused of perpetuating

F F integritythat is in doubt.

[*Adapted from Education News:Jan 10-22, 2015]*

(a) State what are normally ranked after KCPE and KCSE have been announced. (2 marks)

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(b) List **four** groups that will collaborate in all-inclusive standard system before its inception.(4marks)

……

……

……

……

(c) In note form, state four advantages of the new system. (4 marks)

(d) Prove that the banning of ranking is not approved by all. (2 marks)

(e) Which groups are not happy with the banning of ranking? (3marks)

(f) Write a word from the passage that has the same meaning as: (4marks)

i. Partnership …….

ii. Withdraw ……..

iii. Evils …….

iv. Honesty ……..

3. **Read the poem below and then answer questions that follow**.

Your love flows through my veins
like the Nile River flows through
the sands of Eygpt.
Love flows through my veins
like rivers that break off into endless streams
and water the gardens of the green stems
of torn covered rose bushes.

In my veins, you flow, as a sparrow

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flies through the blue skies in beauty.
You are the blood that flows through my veins
and later settles deep in my heart
and embraces me with a hug of intimacy.

Love flows through my veins
like endless notes played by the sweetest composer
along with his private orchestra playing a lovely melody.
Rivers, streams break off and flow into lakes and oceans,
Like my veins that lead to my heart,
you are always there flowing through my veins.
Your love flows through my veins.

(a) Who is the speaker in this poem? (2marks)

(b) Describe what the poem above is about. (4marks)

(c) Identify **three**instances of similes in the poem. (3marks)

(d) Give this poem a suitable title. (1mark)

……..

4. CLOZE TEST

Read the passage below and then fill in the blank spaces with the most suitable words. Use only ONE word in each space. (10marks)

We are often advised to be confident; confidence comes when we feel passionately about what we perform, what we have achieved, and what we can offer.

Lack of can hinder a lot of things, ranging from how you get ahead in your career to the number of skills you are able to acquire. It is a determining factor in the way

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you direct career. Confidence is conveyed from inner to the through the words you speak and the posture you assume. Building confidence is a one day affair. Neither does it take other people to build your confidence.

remember an interview I once conducted for secretaries, and the memory of one woman is intact. She stammered from the point she entered the office the moment she left. Thinking that it was interview jitters, we called again, based on her technical qualifications rather than her presentation. She presented same problem. We settled on a different candidate because confidence was a key qualification the job which involved dealing clients and colleagues.

5. ORAL SKILLS

(a) Read the riddling convention below and then answer questions that follow.

Oguma: I have a riddle!
Tonny: Throw it.
Oguma: What is so fragile that when you say its name you break it?
Basil: Glass.
Tonny: Plate.
Oguma: You both are wrong. Give me a city.
Tonny: We have given you Kisumu.
Oguma: The answer is silence.

i. Name the: (2marks)

I. Respondent

……..

II. Challenger

……..

ii. Identify the following parts of the convention. (3marks)

I. Prize

II. Guess

III. Solution

(b) Fill in the more suitable word in the space provided. (5marks)

i. F

ii.

iii. F F

iv. F F F F

v.

(c) Underline the silent letter in: (5marks)

i. Debtor

ii. Asthma

iii. Wren

iv. Catalogue

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v. Guess

(d) Considering the pronunciation of the underlined letter(s), write the odd word out. (5marks)

i. Flash, car, cat ……

ii. Birth, herd, guard ……

iii. Quack, cucumber, cent ……

iv. Much, choir, kick ……

v. Usual, genre, sure ……

6. GRAMMAR

(a) Rewrite the following sentences according to the instructions given. Do not change their meanings. (4marks)

i. I go to church every week.

Replace the underlined words with one word.

……

ii. **Not all the times** I travel to Mombasa.

Replace the words in bold with one word

……..

iii. I drank the porridgewithout sharing with anyone.

Replace the group of underlined words with a single word

……..

iv. I gave he a mango?

Correct the mistake

……

(b) Use the most appropriate form of the word in brackets to fill the blank space. (4marks)

i. F

ii. F F

iii. F FF F

iv. F

(c) Write the correct form of the adjective given in brackets. (4marks)

i. F F F F F F

ii. Vera F FF

iii. Musa F

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iv. F

draw his picture. (exciting)

(d) Without using the words underlined, rewrite the following as questions beginning with the words in brackets. (4marks)

i. People handle old violins <u>carefully</u>. (how)

……

ii. I saw him <u>yesterday</u>. (when)

……

iii. Pianists <u>sometimes</u> play duets. (how often)

……

iv. Some students play <u>everywhere</u> in the field. (where)

……

(e) Fill in the most <u>suitable preposition</u>. (4marks)

i. FF

ii. F F

iii.

iv. F

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NAME_____CLASS_____ADM_____

FORM ONE EXAM
GEOGRAPHY

TIME: 1hr 30Mins

1. What is environment? (2marks)

   _____

   _____

2. Name three human features (3marks)

   _____

   _____

   _____

3. Name two Greek words from which term geography originate (2marks)

   _____

   _____

4. If the local time in Nairobi on longitude 37° E is 10PM .what will be the time at Buchanan Liberia on longitude 10°W(4marks)

5. a)What is an eclipse (2marks)

   _____

   _____

   b)Differentiate between solar and lunar eclipse(2marks)

   _____

   _____

   _____

6. Give three reasons as to why the interior of the earth is hot (3marks)

   _____

   _____

   _____

7. a)Give two dates in a year during which the number of hours of darkness is equal in both the north and south poles (2marks)

   _____

   _____

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b) State four factors that support life on planet earth (4marks)

_____

_____

_____

_____

_____

8 a) State three factors that influence weather (3marks)

_____

_____

_____

b)The table below shown below represent rainfall and temperature of station

X. Use it answer the following questions

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp in c	30	31	31	31	30	29	28	28	29	29	29	30
Rainfall in mm	250	250	325	300	213	25	25	25	100	275	380	200

i. Calculate the mean annual range of temperature (2marks)

ii. Calculate the mean annual rainfall for station X(2marks)

iii. With an aid of a well labeled diagram describe how relief rainfall is formed (6marks)

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9.a)Write down two types of questionnaires (2marks)

b) What factors must be considered in selecting methods of data collection (3marks)

c)State four advantages of using questionnaires in collecting of statistical data(4marks)

d) i) Study the table below of a station B in a month of July and answer the following questions

Direction of the wind	N	NE	E	SE	S	SW	W	NW	CALM	TOTALS
No of days	3	3	1	1	2	7	6	4	4	31

ii) Use the suitable technique to present the data (6marks)

d)State three disadvantages of using a wind rose to represent data(3marks)

e)Name four methods of recording statistical data(4marks)

a)What is a map(2marks)

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b)List down four types of maps(4marks)

_____
_____
_____
_____
_____

c) Outline five uses of maps (5marks)

_____
_____
_____
_____
_____
_____

11.a)List down three methods used in analysing statistical data (3marks)

_____
_____
_____

b)If the study of a farm ,10 hectares are found to be devoted to coffee growing and the total acreage is 100hectare what is the percentage of the area under coffee (1mark)

c) A pupil was requested to pick out fourteen numbers randomly from a set of numbers.She picked 20,1,66,42,12,6,15,12,42,100,3,82,42,37

calculate

i. The mean of data (2marks)

ii. The mode of data (2marks)

iii. The median of the data (2marks)

HISTORY & GOVERNMENT

FORM 1

NAME_____ADM NO_____ CLASS_____

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATE

- **This paper contains three Sections : Section A , B and C**
- **Answer all questions in Section A**
- **Answer all questions in Section B**
- **Answer two questions in Section C**

SECTION A

1. State the two theories explaining the origin of Agriculture. (2 marks)

2. Which was the first animal to be domesticated by man? (1mark)

3. Give two functions of Fort Jesus. (2 marks)

4. Define the term Mesopotamia. (1 mark)

5. List down any irrigation methods used in Egypt. (2 marks)

6. What does the term Agrarian revolution mean? (1 mark)

7. Define the term Third world Country. (1 mark)

8. Who were the early inhabitants of Kenya? (2 marks)

9. Name any two communities that belong to the coastal Bantus. (2 marks)

10. List down two items of trade from East Africa during the Indian Ocean trade. (2 marks)

11. Identify any two cultural aspects of the Khoisan stock. (2 marks)

12. What type of government does Kenya practice? Give a reason.(2 marks)

SECTION B

13 a) Highlight five Mijikenda clans.(5 marks)

b) Explain five reasons for Nilotes migration from their original homeland. (10 marks)

14. a) Name any five early visitors to the East African Coast up to 1500AD. (5 marks)

b) Explain five reasons for the coming of the Arabs. (10 marks)

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2. UFAHAMU

Soma taarifa ifuatayo halafu ujiu maswali

UMOJA NA UTANGAMANO WA KITAIFA

Taifa ni jamii ya watu wanaoishi pamoja na kuunganika kihistoria na kitamaduni chini ya serikali moja. Muunganiko huu hutokea kinasibu na watu kujikuta chini ya himaya moja. Umoja na utangamano katika taifa hutokana na mambo kadha wa kadha.

Kwanza kabisa ni ushirikiano baina ya wanajamii wenyewe. Umoja wao huletwa na lugha wanayotumia. Hapa nchini Kenya Kiswahili kimechangia pakubwa katika kuleta utangamano. Luhga ya Kiswahili inazungumzwa kote nchini. Wananchi kutoka sehemu tofauti za nchi wanaweza kuwasiliana bila shida yoyote.

Pili, utawala wa serikali ya kitaifa huleta utangamano wa jamii katika nchi. Huduma za serikali hutolewa kwa wote bila ya ubaguzi. Nchi inapokuwa chini ya kiongozi aliyechaguliwa na wananchi hufanikisha umoja.

Jambo lingine ambalo huleta utangamano wa kitaifa, ni kuweko kwa sera inayoongoza maazimio na malengo ya taifa. Viongozi na wananchi wote hujitahidi kuchangia katika kuyafikia maazimio na malengo ya taifa lao.

Utamaduni wa nchi nao ni muhimu katika kuleta umoja wa kitaifa. Mila, itikadi na kaida zenye manufaa na zinazokubalika na jamii hufanikisha kutambulisha taifa. Hivyo wananchi kupigania kwa jino na ukucha kuhifadhi utamaduni wao. Kwa mfano: sanaa za uigizaji na uimbaji nchini Kenya husaidia kutomelea umoja huu. Tamasha hizi ni chombo muhimu cha utangamano. Mfumo sawa wa elimu nchini ni njia nyingine ya kuimarisha umoja wa kitaifa.

Wafanyibiashara wanaposafiri kutoka sehemu moja ya nchi hadi nyingine hutangamana na wananchi wenzao wanapouza au kununua bidhaa na huduma. Utangamano huo hukuza umoja wao.

Maswali

a) Eleza maana ya taifa. (al 2)

……

……

b) Eleza umuhimu wa Kiswahili nchini Kenya. (al2)

……

……

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c) Taja mambo manne ambayo huleta umoja wa kitaifa. (al4)

.....

.....

.....

.....

d) Eleza maana ya maneno yafuatayo kwa mujibu wa kifungu hiki. (al 2)

i) Utangamano.....

ii) Utamaduni .....

3. *Matumizi ya lugha (al. 30)*

a) Taja sifa mbili mbili za sauti zifuatazo. (al. 4)

i) /u/.....

ii) /e/.....

b) Yaja sauti mbili mbili ambazo ni, (al. 6)

i) Vipasuo.....

ii) Nazali.....

iii) Vikwamizo.....

c) Pambanua aina za maneno katika sentensi ifuatayo. (al. $2^1/_2$)
Maharagwe yalivunwa na kutiwa ghalani.

.....

.....

d) Panga maneno haya vizuri ili yaunde sentensi sahihi. (al. 2)
Hodari Yule mwanamuziki nchi amezuru nyingi Afrika za.

.....

.....

e) Tunga sentensi moja moja kubainisha maana ya maneno yafuatayo; (al.2)

i) Paa

.....

ii) Shuka

.....

f) Kanusha sentensi ifuatayo; (al. 2)
Mwalimu anasahihisha kitabu cha mwanafunzi.

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……

g) Andika sentensi ifuatayo upya ukizigatia maagizo kwenye mambano. (al. 2)
Mazingira yamehifadhiwa. (hali ya mazoea)

……

h) Maneno yafuatayo hupatikana katika ngeli zipi? (al. 2)

1. Manukato……

2. Sukari……

i) Tofautisha sentensi hizi. (al. 4)
1. Gari liliibwa

……

2. Gari liliibiwa

……

j) Kamilisha sentensi zifuatazo kwa kutumia vitenzi vilivyo katakia mambano.(al. 2)
i) Sauti hii ili ……na fuudi wa kihindi. (shone)
ii) Yuko wapi Yule mgonjwa aliye…… hapa? (leta)

k) Eleza maana ya msamiati ufuatao wa ushairi. (al. $2^1/_2$)
i) Ubeti

……

……

ii) Mizani

……

……

iii) Mshororo

……

……

iv) Ukwapi

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……

……

v) Dhamira

……

……

4.ISIMUJAMII (al 10)

a) Eleza maana ya;
i) Isimu

……
……

iii) Jamii

……
……

iv) Isimujamii

……
……

v) Sajili

……
……

vi) Lafudhi

……
……

5.FASIHI SIMULIZI. (al 10)

a) Eleza maana ya fasihi. (al. 2)

……

……

b) Toa sifa nne ili kutofautisha fasihi andishi na fasihi simulizi. (al. 8)

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NAME:……..……CLASS:……ADM NO:……..

MATHEMATICS
FORM 1

<u>INSTRUCTIONS</u>:
Write your name and admission number in the spaces provided.
All workings and answers must be clearly written in the spaces provided.

1. Write in words 437 308 041. (2mks)

2. Test whether the number 24831 is divisible by 3. (3mks)

3.

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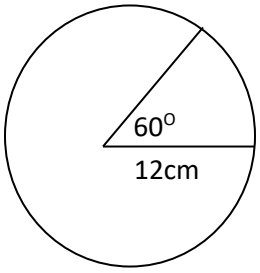
4. Write the following in standard form. (2mks)
   a. 0.001576

   b. 325.87

5. Use tables to find the:
   a. Square of 36.21 (2mks)

   b. Square root of 0.0293 (2mks)

6. Find the perimeter of the figure below. (3mks)



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7. If x = -2, y =-6 and z=4, find the value of: (2mks)

$$\frac{3YZ}{X}$$

8. Express the following numbers as a product of prime factors.
   a. 472 (2mks)

   b. 1078 (2mks)

9. Arrange the following fractions in ascending order. (2mks)
   $^{11}/_{12}$, $^{5}/_{6}$, $^{2}/_{3}$, $^{5}/_{6}$

10. The sum of three consecutive whole numbers is 84. Find the numbers. (3mks)

11. Express the following as a fraction.
    a. $0.67\dot{}$ (3mks)

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b. $2.8\dot{3}\dot{}$ (3mks)

12. Maureen spent sh. 207 to buy 7 exercise books and 4 pens while Sharon spent sh. 165 to buy 5 exercise books and 5 pens of same type. Find the cost of each item. (3mks)

13. The sum of interior angles of a regular polygon is 720^{O}. Find the number of sides of the polygon and give its name. (3mks)

14. A lady bought US £ 5000. From this, she spent US£ 1000 on a return ticket and US£ 1750 while in USA. Upon her return, she sold the remaining dollars. Using the following exchange rate:

Currency	buying	selling
1US Dollar (£)	78.4133	78.4744

a. How much did she pay to the bank in Kenya shillings to yet the US £ 5000? (2mks)

b. How much in Kenya shilling did she get after selling the remaining amount to the bank? (2mks)

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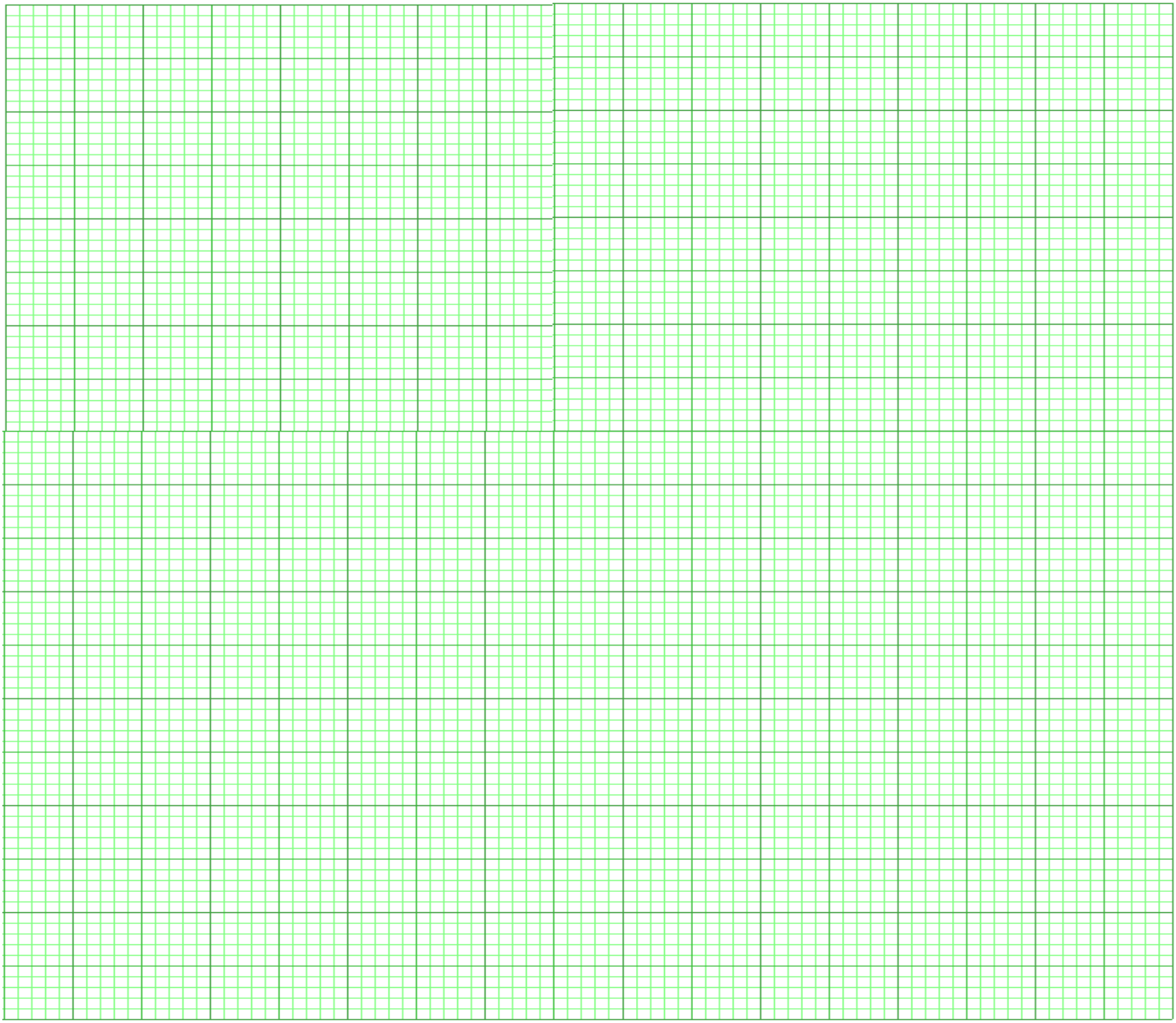
15. Solve the following pair of simultaneous equations graphically. (6mks)

$2x - y = 3$
$X + 2y = 14$



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SECTION II (20MKS)
Answer all questions.

16. The travel timetable below shows the departure and arrival times for a bus flying between two towns M and R, 300km apart.

Town	Arrival	Departure
M		0830h
N	1000h	1020h
P	1310h	1340h
Q	1510h	1520h
R	1600h	

a. How long does the bus take to travel from town M to N? (2mks)

b. What time does it take at town P? (2mks)

c. At what time does it arrive at town R in 12hr clock system? (2mks)

d. What is its average speed for the whole journey? (4mks)

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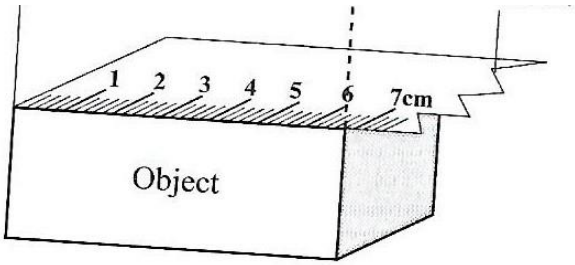
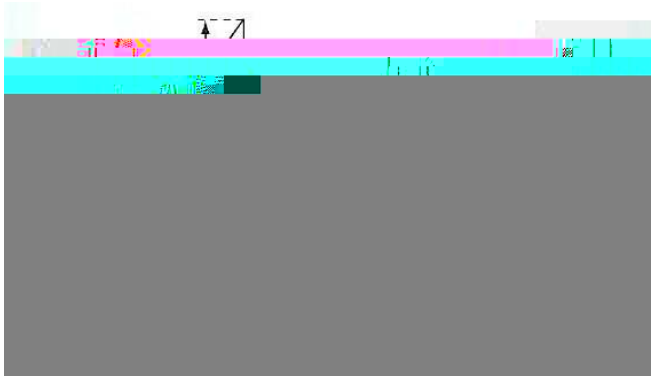
(iii) Electric shock (3mks)

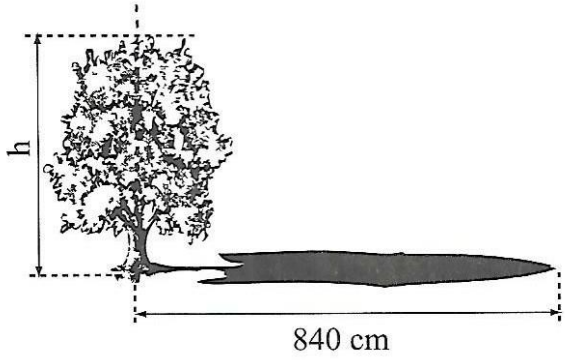
4.Study the diagram bellow and indicate on the diagram the right position of the eye when taking the measurements. (3mks)

A B C



5.Estimate the height of the tree below. (5mks)





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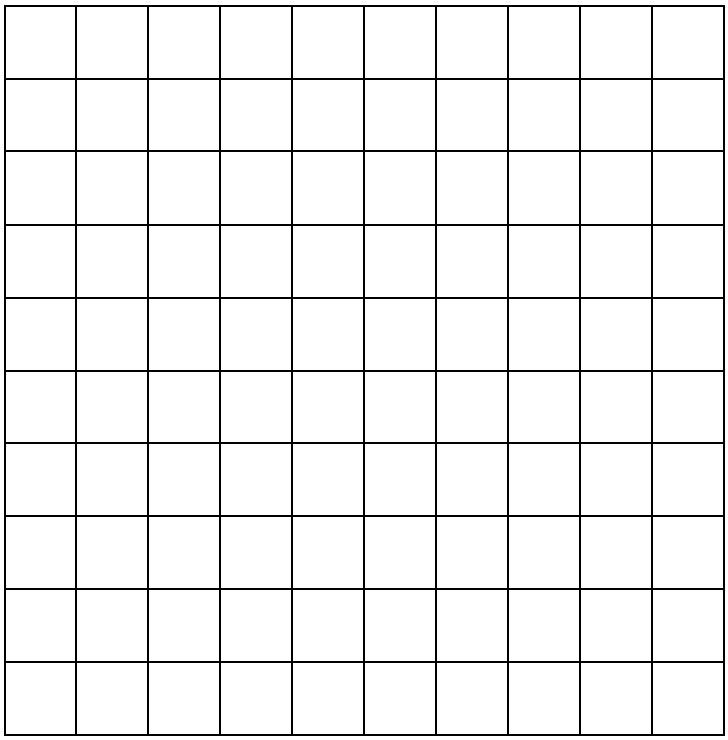
6.Estimate the area of the irregular surface shown in the figure below. (4mks)



7.The density of a material is 22.5gcm^{-3} .Express this in SI units. (3mks)

8.Give 3 effects of a force. (6mks)

9.It is observed that the pollen grains are in constant motion.Explainthe observation. (4mks)

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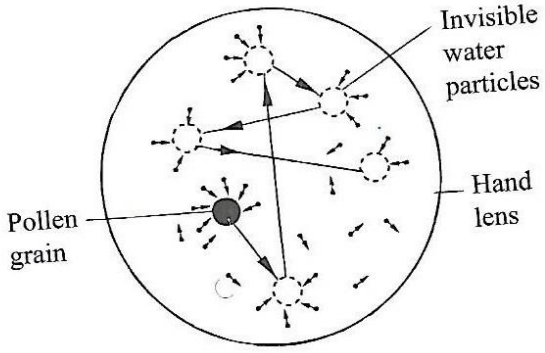

10.In a hydraulic press,a force of 200N is applied to master piston of area $25cm^2$.If the press is designed to produce a force of 5000N,determine;

(a) The area of the slave piston. (4mks)

(b) The radius of the slave piston. (4mks)

11.Explain why the walls and ceiling boards painted white. (3mks)

12.Explain the greenhouse effect and how it affects the earth. (4mks)

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13.The ventilations for a room are put near the roof and not near the floor. Explain n (4mks)

14.Explain how temperature affects Brownian motion. (4mks)

15.Pressure is affected by many factors,study the diagram below and give reasons for such effects. (4mks)

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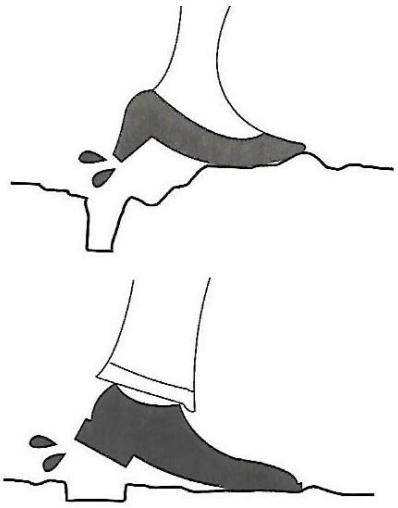
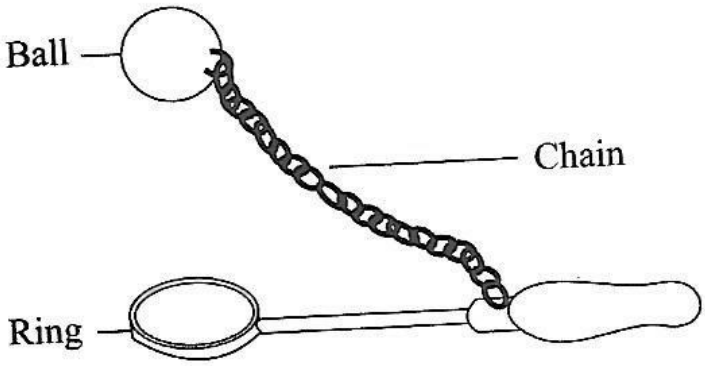


16.The ball shown below is bigger than the ring, explain an experiment to enable the ball pass through the ring. (5mks)



17.A brick 20cm long,10cm wide and 5cm thick has a mass of 500g.Determine the(Take $g=10Nkg^{-1}$)

(a) greatest pressure that can be exerted by the brick on a flat surface. (3mks)

(b) Least pressure that can be exerted by the brick on a flat surface. (2mks)

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AGRICULTURE, FORM 1
TIME: 1HR 45MIN

NAME.....ADM.....CLASS.....

INSTRUCTION: Answer ALL the questions

1. Give two reasons why Agriculture is looked as a science. (2mks)

2. a) What are the advantages of organic farming? (2mks)

   b) What is mixed farming? (1mk)

3. a)Give four reasons why Agriculture considered important in Kenya's economy. (4mks)

   b)What is plantation farming. (1mk)

4. State two effect of HIV/AIDS on agriculture. (1mk)

5. a) State the difference between soil structure and texture. (2mks)

6. a) What is soil profile? (2mks)

   b) Describe the components of a well developed soil profile. (5mks)

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7. Place the following tools in their respective categories and state their uses. (10mks)
   a) Panga

   b) Shovel

   c) Pick axe

   d) Garden line

   e) Wheelbarrow

   f) Sprayer

   g) Ripsaw

   h) Tape measure

   i) Scraper

   j) Marking gauge

8. a) State the reasons for preparing land before planting. (4mks)

   b) What is a seedbed? (1mk)

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9. Give reasons why the burning of Bushes as a methods of land cleaning should be discouraged. (2mks)

10. What is ridging? (1mk)

b) Give reasons why the following operations are carried out in crop production;
i) Rolling. (1mk)

ii) Levelling. (1mk)

11. State the main sources of water on the farm. (3mks)

b) State the methods of water collection and storage in the farm. (3mks)

c) What are the four reasons for treating water for human consumption. (2mks)

12. a) What is;
i) Drainage. (1mk)

ii) Pollution. (1mk)

b) i) List six different types of drainage. (3mks)

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ii) Describe the agricultural practices which lead to water pollution. (2mks)

13. a) Define the term soil fertility. (2mks)

b) State the characteristics of a fertile soil. (5mks)

14. a) What is the importance of organic matter in the soil? (5mks)

b) What are the functions of the following in the preparation of compost manure? (3mks)
i) Topsoil

iii) Wood ash

iv) The layer of manure

15. Discuss the importance of livestock to a Kenyan farmer. ($2^1/_2$mks)

16. List the characteristics of a dairy cow. ($2^1/_2$mks)

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17. a) Differentiate between the following breeds of livestock.

i) New Zealand white and Californian white. (2mks)

ii) Large white and landrace. (2mks)

18. What is the color of each of the following breeds of livestock?

a) Wessex saddle backs. (½ mk)

b) Toggenburg (½ mk)

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BIOLOGY FORM ONE

TIME: 1 ½ HOURS

Answer all the questions in the spaces provided.

1. Name the branch of biology involved in the study of
   a. Relationships of living with each other and their environment.(1mrk)

   b. Identification and classification of organisms.(1mrk)

2. The binomial name of housefly is MUSCA DOMESTICA.
   i) State<u>two</u> mistakes in the way the scientific name is written. (2mks)

   ii) Re-write the name in correct manner following the rules of binomial nomenclature. (1mrk.)

3. State the use of each of the following apparatus: (3mrks)

   I)Bait trap

   ii) Specimen bottle

   iii) Pitfall trap

4. Give the functions of thefollowing parts in a light microscope.(3mrks)
   a. Diaphragm

   b. Condenser

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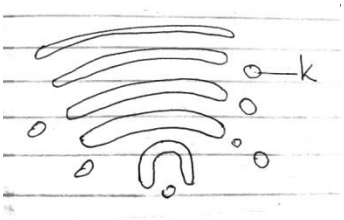
c. Objective lens

5. b) Why is it not likely to use an electron microscope in a school laboratory? 2mks

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



(a) Identify the organelle. 1mk

(b)Name the structure labelled K 1mk

(c)State two functions of the organelle named in (a) above. 2mks

7. (i) What is the importance of carrying out the following procedures when preparing temporary slides in the laboratory? (3mks).

(A). Adding water to the specimen.

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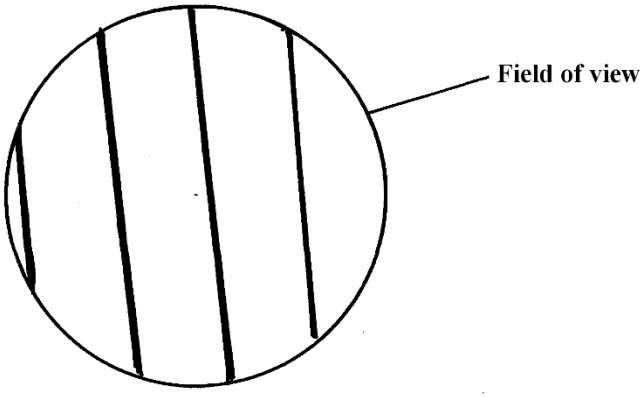
(b).Staining the specimen.

(c). Using a sharp blade to make sections.

8. A student estimating a cell size of an onion epidermal cells observed the following on the microscope field of view using a transparent ruler.



The student identified 20 cells across the field of view. Calculate the size of the cell inMicrometers (show your working) (3mks)

10.Define the term physiology(1mrk)

11. (a)Name the principal components of cell membrane (3mrks)

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24. State the role of light in the processes of photosynthesis(1mrk)

25. Name the building blocks of ;(3mrks)

(I) Proteins

(ii)Carbohydrates

(iii) Fats

26. What are enzymes?(1mrks)

27. State the main properties of enzymes (2mrks)

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END TERM EXAM

BUSINESS FORM 1

TIME $1^{3}/_{4}$ HRS

NAME…….. ADM NO…….CLASS……..

1. Define the following terms as used in business studies. (8mks)
   a) Good

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      ……

   b) Services

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   c) Economics

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   d) Accounting

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2. State **four** features of a good filing system. (4mks)

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3. Outline **four** sources of business ideas. (4mks)

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4. Give any **four** business activities. (4mks)

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5. Highlight **four** reasons why people engage in business activities. (4mks)

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6. Mention **four** types of resources that are important in business. (4mks)

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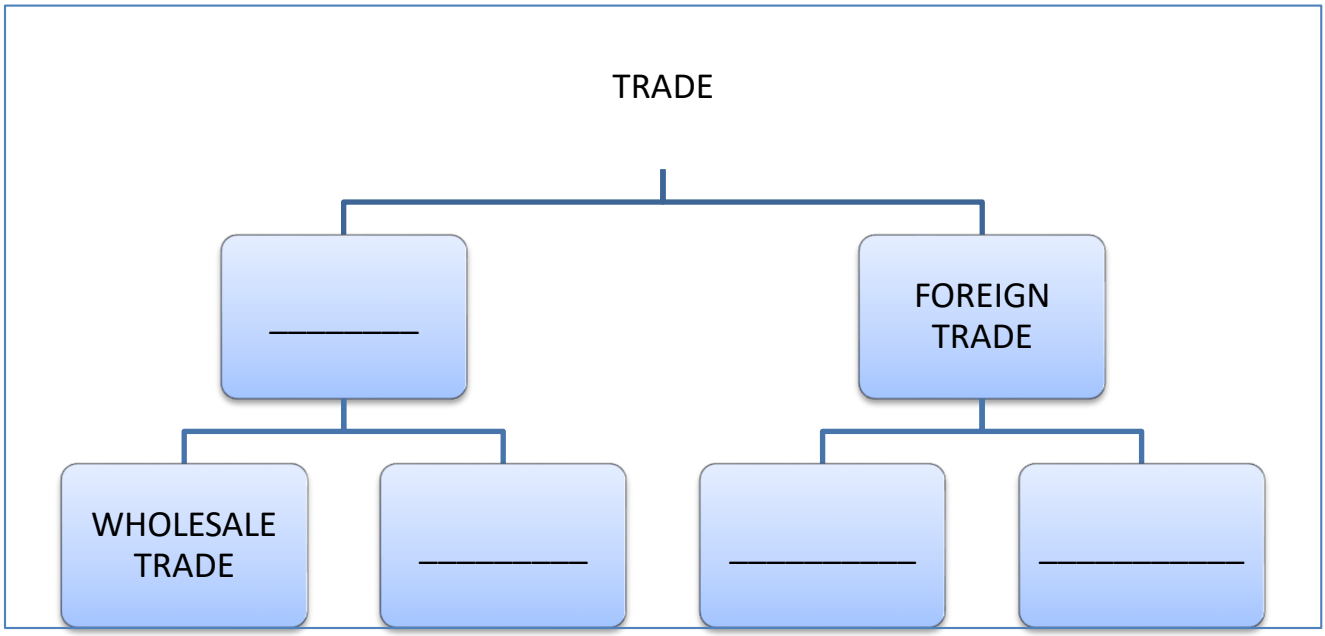
7. Fill in the blank spaces below (4mks)



8. State **four** features of supermarket. (4mks)

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9. Differentiate between goods and services. (5mks)

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GOODS		SERVICES	
i		i	
ii		ii	
iii		iii	
iv		iv	
v		v	

10. Mention any **four** small scale retailers without shops. (4mks)

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11. Business studies are a wide subject that covers several disciplines. Outline those **five** disciplines. (5mks)

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12. Identify any **four** features of economic resources. (4mks)

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13. State any **four** factors to consider when selecting office equipment. (4mks)

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14. Give **four** advantages of an open office layout. (4mks)

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15. Identify any **four** causes of a business success. (4mks)

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16. Differentiate the following terms as used in production. (6mks)

a) Free goods and economic goods.

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b) Producer goods and consumer goods.

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c) Public goods and private goods.

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17. Mention **four** factors that hinder geographical mobility of labour. (4mks)

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18. State **four** functions of an entrepreneur. (4mks)

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

CHEMISTRY EXAM
FORM ONE

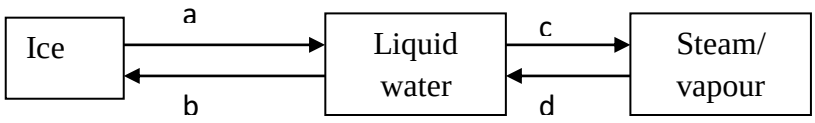
1. Explain why most laboratory apparatus are made of glass. (2mks)

2. (a) What is drug abuse? (1mk)

   (b) Name three drugs that are commonly abused. (3mks)

   (c) State two ways of preventing drug abuse. (2mks)

3. Study the diagram below and answer the question that follows.



   a) Name the process labeled a, b, c and d. (2mks)

   b) Draw a similar diagram to show the effect of temperature on solid carbon (IV) oxide (dry ice) (2mks)

4. Identify the elements present in the following compounds.
   i) Magnesium oxide. (1mk)

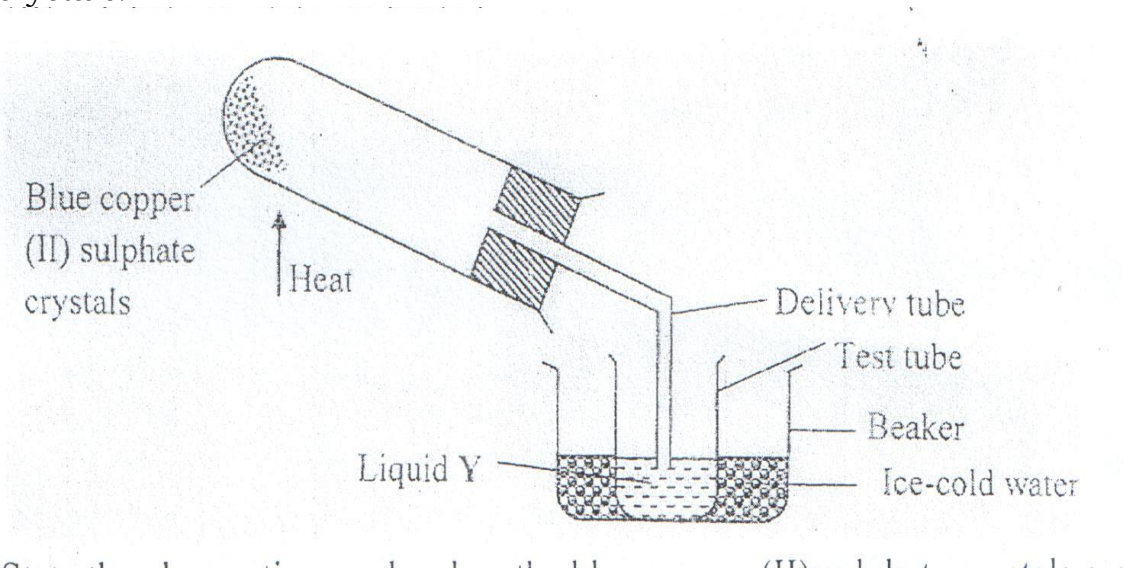
   ii) Zinc chloride. (1mk)

iii) Sodium sulphate. (1mk)

iv) Aluminium nitrate. (1mk)

5. State three differences between luminous and non luminous flame. (3mks)

6. The diagram below shows the effect of heat on hydrated copper (II) sulphate crystals.



a) State the colour of hydrated copper (II) sulphate crystals. (1mk)

b) What observations are made inside the boiling tube after heating has taken place? (1mk)

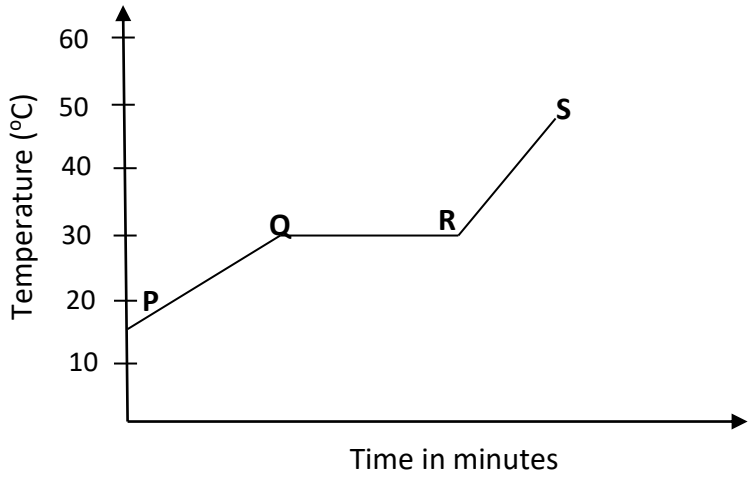
c) What is the use of ice-cold water in the beaker? (½ mk)

d) Name liquid Y. (½ mk)

e) What will be observed if the residue in the boiling tube is cooled and a few drops of liquid Y added to it?)1mk)

f) What type of chemical change is exhibited by copper (II) sulphate? (1mk)

7. The graph below shows the shape of the curve obtained by a student when solid X was heated to boiling.



a) Determine the melting point of solid X. (1mk)

b) After the experiment the student concluded that substance x was pure substance. Explain why he concluded so. (1mk)

c) If candle wax was used in the above experiment the portion QR would be horizontal. What does this tell us about candle wax? (1mk)

8. (a) What is the effect of impurities on the melting and boiling point of substances? (2mks)

(b) Explain the following:

i) During extraction of metals from their molten compounds for example calcium chloride is added to rock salt during the extraction of sodium from sodium chloride. (1mk)

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ii) In temperate counties there is spreading of common salt in the roads during winter. (1mk)

9. Distinguish between temporary physical and permanent chemical changes. (2mks)

10. (a) Write the names of the elements represented by symbols. (3mks)

i) K –

ii) Cl –

iii) Fe –

iv) Mg –

v) C –

vi) Be –

(b) Define:

i) Atom. (1mk)

ii) Compound. (1mk)

iii) Element. (1mk)

11. (a) Complete the following. (3mks)

i) Acid + metal →

ii) Acid + Base →

iii) Acid + Carbonate →

(b) Write word equations for the following reactions.

i) Zinc and hydrochloric acid. (1mk)

ii) Potassium hydroxide and sulphuric (VI) acid. (1mk)

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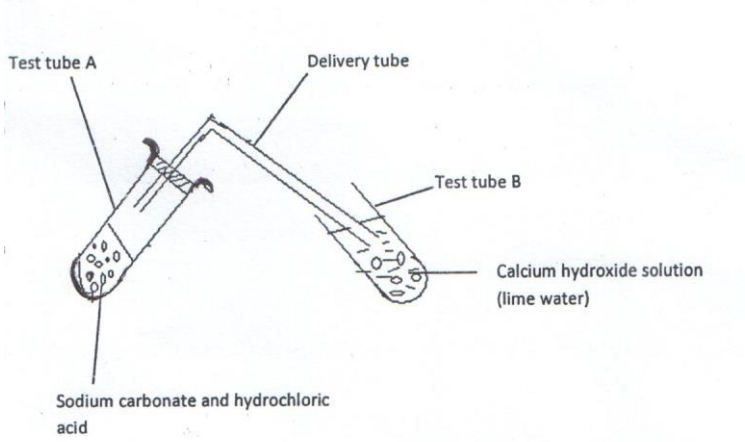
iii) Magnesium carbonate and nitric (V) acid. (1mk)

12. Study the diagram below for the reaction between sodium carbonate and hydrochloric acid and answer the questions that follow.



a) Explain what was observed in:

i) Test tube A. (1mk)

ii) Test tube B. (1mk)

b) Write a word equation for the reaction which took place in test tube. (1mk)

13. State whether solutions with the following pH values are acidic, basic or neutral. (2mks)

pH 3 –

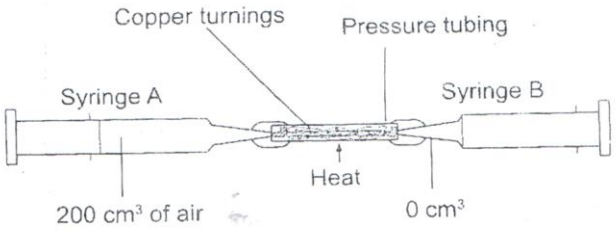
pH 11 –

pH 14 –

pH 7 –

14. Is air a mixture or a compound? Explain. (2mks)

15. The apparatus below were used to determine the volume of oxygen in air. About 200cm^3 of air were passed repeatedly from syringe A to syringe B over heated copper turnings as shown in the diagram.

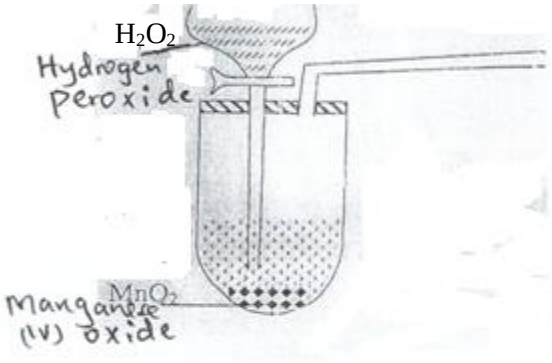


After sometime, the volume of air in the syringe A was 160cm^3 and syringe B, 0cm^3

a) Calculate the percentage of oxygen in the initial sample of air. (2mks)

b) The percentage of oxygen calculated above was slightly less than the percentage of oxygen in air. Explain why. (1mk)

16. The set-up below was used to prepare a sample of oxygen gas. Study it and answer the questions that follow.



a) Complete the diagram to show how oxygen can be collected. (2mks)

b) Write a word equation for the reaction that produces oxygen above. (1mk)

c) State two physical properties of oxygen gas. (2mks)

d) State two uses of oxygen. (2mks)

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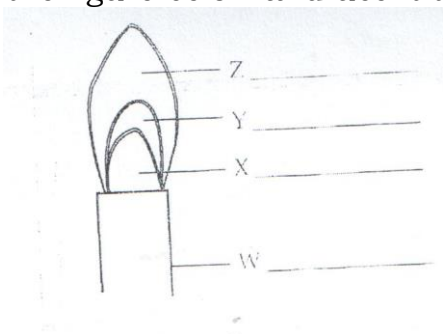
17. Candle wax is an example of a hydrocarbon.

a) What is a hydrocarbon? (1mk)

b) Name the two products formed when hydrocarbons burn in oxygen. (1mk)

18. Study the figure below and use it to answer the following questions.

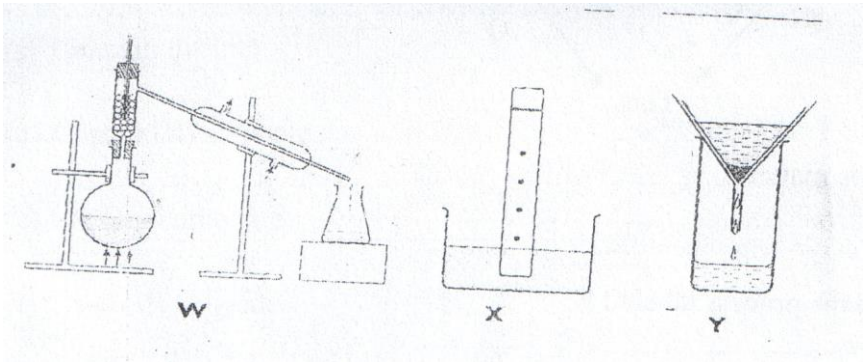


a) Name the parts labeled X and Y. (1mk)

b) Identify the flame. (1mk)

c) Which part of the flame is the hottest? (1mk)

19. The diagrams below show some physical methods of separating mixtures.



a) Name the methods of separation labeled W, X and Y.