FORM 3 TERM 1 ENTRY EXAMS

ALL SUBJECTS

Compilation of Standard set of Term 1 Questions for the Current Class. Comprehensive Papers in Each Subject.

SUBJECTS TESTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, Geography, History, Business Studies, Agriculture, French, Home Science & Computer Studies.

SERIES 3

For Marking Schemes

Mr Isaboke 0746-222-000 / 0742-999-000

MWALIMU CONSULTANCY

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

CHEMISTRY

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

Answer All the Questions in the Spaces Provided

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

								F
A	B		C		D		E	
G								H

a) i) Write the electron arrangement of elements; B and **A** **(2mks)**

……

……

ii) Write the formula of the compound formed between the elements B and **E.** **(1mk)**

……

……

b) Element K has atomic number 14. Indicate by use of tick ( ) the position of this element in the table above **(1mk).**

c) i) The ionization energy of A is higher than that of G. Explain. **(2mks)**

……

……

……

ii) The atomic radius of C is larger than that of **D.** **(2mks)**

……

……

……

iii) Compare the reactivity of elements A and B. Explain your answer. **(2mks)**

……

……

……

d) i) State the name of the group to which elements F and H belong**.** **(1mk)**

……

ii) Give one use of any of the elements of in group in d(i) above. **(1mk)**

……

……

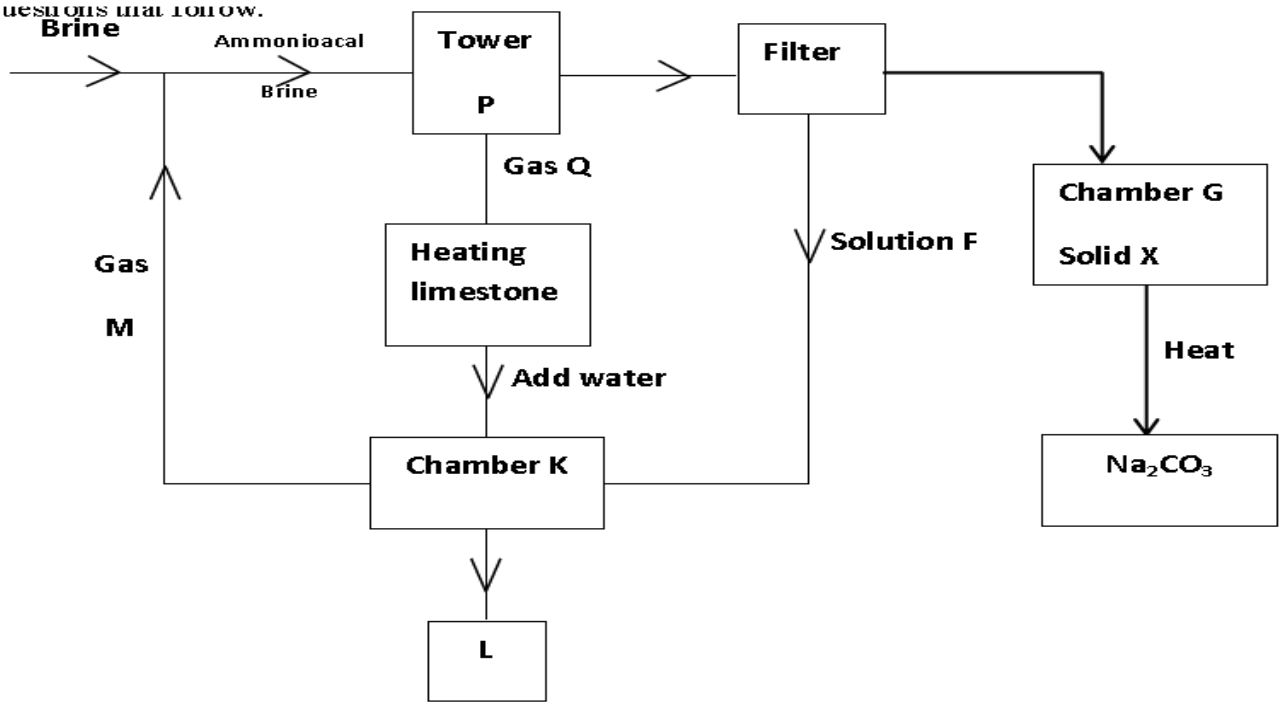
e) The chloride of B is ionic, while the chloride of C is covalent. Explain this observation. **(2mks)**

……

……

……

2. The flow chart below is for the manufacture of sodium carbonate using Solvay process. Use it to answer the questions that follow.



(a) Name **(3mks)**

(i) Gas **M**……

(ii) Solution **F** ……..……..…

(iii) Solid X ……..…

(iv) The product **L**……

(b) Write an equation for the reaction in chamber **K.** **(2mks)**

……

……

(c) Name **two** raw materials used in Solvay process**.** **(2mks)**

……

……

(d) (i) Name **one** substance recycled in Solvay process. **(1mk)**

……

……

(ii) Give **two** reasons why carbon (IV) oxide is used as fire extinguisher**.** **(2mks)**

……

……

(iii) Explain why lead carbonate is not reacted with dil. H2SO4 in preparation of carbon (IV) oxide in the laboratory**.** **(2mks)**

……

……

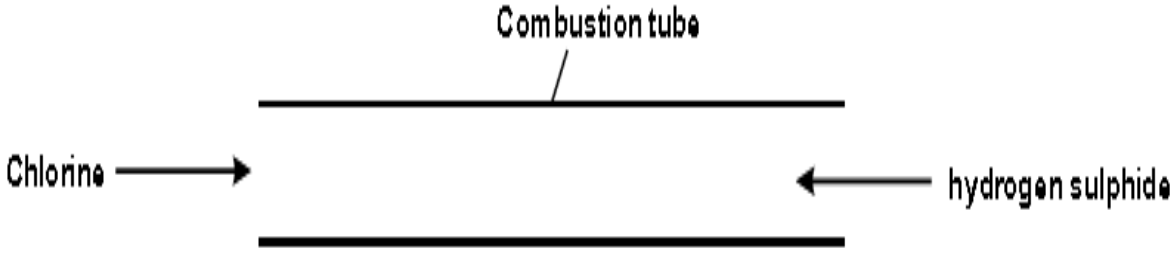
……

3. a) State Graham's law of diffusion**.** **(1 mark)**

……

……

b) An experiment was carried out to compare the rates of diffusion of chlorine gas and hydrogen sulphide gas. (H=1, S=32, Cl=35.5)



i)What observation was made in the combustion tube**?** **(1 mark)**

……

……

ii) Indicate where the observation in (i) above would occur. **(1 mark)**

……

……

iii) It takes 15 seconds for 45cm³ of chlorine to diffuse through the combustion tube. How long will it take 135cm³ of hydrogen sulphide to diffuse under similar conditions? **(3 marks)**

……

……

……

4. a) State Charles's law**.** **(1 mark)**

……

……

b) The table below shows the relationship between the volume of a fixed mass of a gas and its temperature (°C) at constant pressure.

Volume (cm^3)	30	32	34	37	39	41	43
Temperature (°C)	0	20	40	60	80	100	120
Temperature (K)							

i) Complete the table by filling the corresponding temperature in Kelvin**.** **(3½ marks)**

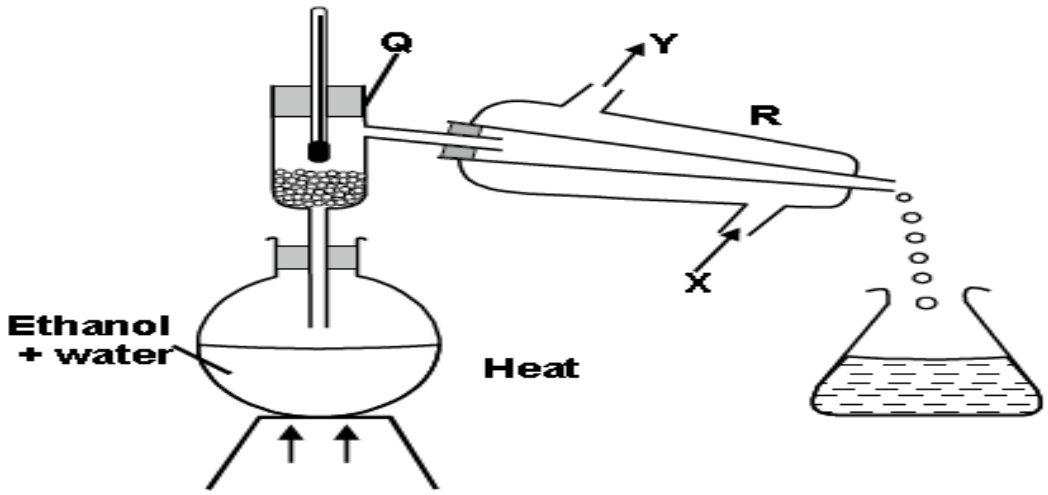
ii) Plot a graph of volume (cm^3) on the vertical axis against temperature in Celsius on the Horizontal axis using a temperature range : -300°C to 120°C **(3 marks)**

iii) Extrapolate the graph in (ii) above to cut the horizontal axis and read the temperature value. **(1 mark**)

iv) Determine from the graph, the volume of the gas when the temperature is -225°C**. (1 mark)**

c) A balloon contains 100cm³ of air at 25°C. The balloon was put outside in the sun where the temperature was 40°C. Calculate the new volume of **air.** **(2½ marks)**

5. 1. The diagram below shows a set-up of apparatus used to separate a mixture of ethanol (B.P=78.0°C) and water (B.P = 100.0°C)



a) Name the parts labelled Q and state its function**.** **(2 marks)**

……

……

b) Name the apparatus R. **(1 mark)**

……

c) At what point should apparatus R be connected with water? **(1 mark)**

……

d) Name the distillate that was collected first. **(1 mark)**

……

e) State the purpose of the thermometer. **(1 mark)**

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

BIOLOGY

TIME: 2 HOURS

NAME……. ADM NO; …….

CLASS…… DATE…….

1.a} Explain the meaning of each of the following terms. **{2mks}**

i) Cell

ii) Tissue

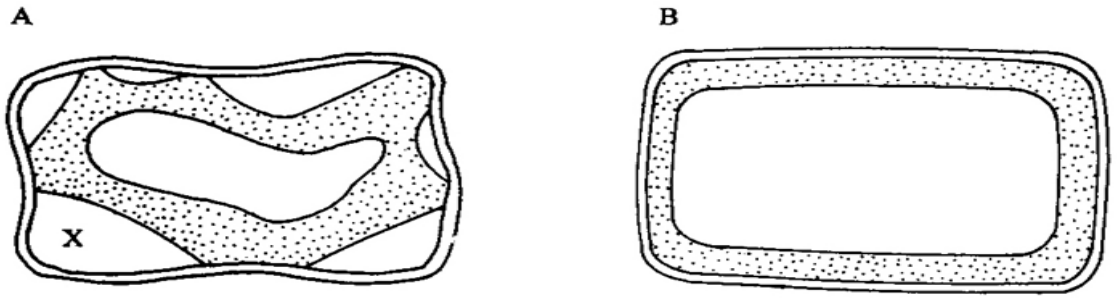
b) Name the two structures which are present in plant cells but absent in animal cells. **{2mks**

…….

…….

c)The diagrams below represent two plant cells A and B placed in two different solutions.

Study the diagrams and answer questions that follow:



i) Identify the nature of solution into which each cell was placed. **(2marks)**

A

B

ii) Name the physiological process responsible for the observed results. **(1mark)**

iii) Give the correct biological term used to describe cell A**.** **(1mark)**

iv) Describe what would happen if a red blood cell was placed in the solution in which cell B was placed**.** **(2 marks)**

……

……

……

2.) a) i) Define nutrition. **{1mk**

ii) State the importance of nutrition. **{3mks**

……

……

……

b) Differentiate the various modes of feeding. **{2mks**

i) Autotrophism

ii) Heterotrophism.

3. State the importance of photosynthesis. **{1 mk**

……

……

4.a i) Name the transport structures of a flowering plant. **{2mks**

……

……

……

ii) State the ways in which xylem vessels are adapted to their function. **{2mks**

……

……

……

5) i) What is transpiration? **{1mk**

……

……

ii) Name the sites through which transpiration takes place in a plant. **{3mks}**

……

……

……

6) a}What is counter current-flow system? **{2mks}**

b) What is the advantage of counter-flow system? **{2mks**

7) i) What is aerobic respiration. **{1mk}**

……

……

ii) State why accumulation of lactic acid during vigorous exercise lead to an increase in heartbeat. **{1mks**

……

……

iii) State the economic importances of anaerobic respiration**.** **{2mks**

……

……

iv) What is oxygen debt? **{1mks}**

……

……

5. a) Define the following terms. **{2mks}**

i) Excretion

……

……

ii) Homeostasis

……

……

6. State two functions of the liver. **{2mks}**

……

……

7.a) State the importance of osmoregulation. **{2mks}**

……

……

b) State the ways by which desert mammals conserve water. **{2mks}**

……

……

c) Explain why some desert animals excrete uric acid rather than water. **{2mks}**

……

……

d) Explain why eating a meal with too much salt leads to production of a small volume of concentrated urine. **{2mks}**

……

……

e) Explain the role played by antidiuretic hormone in homeostasis. **{2mks}**

……

……

……

f) Distinguish between diabetes mellitus and diabetes insipidus. **{2mks}**

……

……

……

g) How can high blood sugar level in a person be controlled? **{ 1mk}**

……

……

h) Why does glucose not normally appear in urine even though it is filtered in the mammalian Bowman's capsule? **{1mk}**

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

PHYSICS

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

1. Differentiate between mass and weight **(2MKS)**

……

……

……

2. An object weighed 16N on the moon's surface when gravitational field strength is 1.6 N/kg

i. Calculate the mass in kg**.** **(1mk)**

ii. If the same object is weighed on the earth's surface when g=10N/kg calculate its weight.**(2mks)**

3. Define pressure and state its SI unit**s.** **(2mks)**

……

……

4. Explain the following terms**.** **(3mks)**

i. Magnetic field

……

……

ii. Magnetic saturation

……

……

iii. Neutral point

……

……

5. In an experiment to estimate the size of Molecule of oil it was found that the level of oil in a burette drop from 37.5 cm3 to 40cm3 mark when 100 drops of oil run out. when one drop of that oil was placed on clear water surface it spread out into a patch of diameter 14cm

Determine the

i. Volume of the oil drop **(2mks)**

……

……

……

ii. Area of the patch covered by the **oil** **(2mks)**

……

……

……

iii. Length of the molecule **(2mks)**

……

……

……

6. Define the term moment of a force about a point and its SI units**.** **(2mks)**

……

……

……

7. A uniform meter rule is balanced by masses 20g and 80 g hung from its ends. Find the position of its pilot**.** **(2mks)**

……

……

……

8. A water wave travels 2m in five seconds. If the frequency of the wave is 10Hz, calculate:

a) speed of the wave **(2mks)**

……

……

……

b) Wave length of the wave**.** **(2mks)**

……

……

……

9. A pupil standing between two parallel cliffs yelled once. She hears one echo after one second and another after 4 seconds

a. If the distance between the cliff is 840m , calculate the speed of sound in air **(3mks)**

……

……

……

……

b. What is the distance of the pupil from one of the cliffs **(2mks)**

……

……

……

10. Differentiate between streamline flow and turbulent flow? **(2mks)**

……

……

……

11. A pipe has a cross-section area of 49cm2 at one end and cross- sectional area of 16cm2 at the other end. If water gets in the pipe through the wider end with velocity of 7mls. Calculate the velocity of water at harrow end**.** **(3mks)**

……

……

……

……

12. Differentiate between volume flux and mass flux**.** **(2mks)**

……

……

……

13. State and explain two dangers of Bernoulli's effect**.** **(3mks)**

……

……

……

……

14. A body moves 3000 meters due east in 40s then 4,000 due north in 60s. calculate**.** **(4mks)**

Its average speed

……

……

……

……

Its average velocity for the whole journey

……

……

……

15. A ball is thrown from the top of cliff 40m height with a horizontal velocity of 20m/s calculate:

(a) The time taken by the ball to strike the ground. **(2mks)**

……

……

……

(b) The distance from the foot of the cliff to where the ball strikes the ground**.** **(2mks)**

……

……

……

(c) The vertical velocity at the time it strikes the ground (take g = 10mls2**)** **(2mks)**

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

BUSINESS STUDIES

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

QUESTIONS

1.Define the following terms;

a)Entrepreneur **(2 mks)**

……

……

b)Entrepreneurship **(2 mks)**

……

……

2.State 2 ways in which the government gets involved in business activities **(2 mks)**

……

……

3.State 4 reasons why the government licences businesses **(4 mks)**

……

……

……

……

4.State 4 circumstances under which water transport is most appropriate **(4 mks)**

……

……

……

……

5.State 4 means of land transport **(4 mks)**

……

……

……

……

6.Explain 3 principles of insurance **(6 mks)**

……

……

……

……

……

……

……

7.State 4 methods of product promotion **(4 mks)**

……

……

……

……

8.Give 4 advantages of personal selling **(4 mks)**

……

……

……

……

9.Differentiate between demand and supply **(4 mks)**

……

……

……

……

10. State 4 determinants of demand **(4 mks)**

……

……

……

……

11. State 4 types of advertising **(4 mks)**

……

……

……

……

12. Differentiate between horizontal communication and vertical communication **(4 mks)**

……

……

……

……

13.State 2 types of discoun**t** **(2 mks)**

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

AGRICULTURE

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

QUESTIONS

1.a) Give four aspects of rainfall which are important in crop production**.** **(2mks)**

……

……

……

……

b)Outline the five categories of farm tools and equipment**.** **(2.5mks**

……

……

……

……

……

c)What is the importance of land preparation. **(2mks)**

……

……

……

……

d) Give reasons for secondary cultivation? **(2mks**

……

……

……

……

e) What are the reasons for practicing minimum tillage? **(2mks**

……

……

……

……

2. a) What are the factors to consider when deciding to irrigate crops? **(2mks**

……

……

……

……

b) Outline the six methods of Land Reclamation. **(3mks**

……

……

……

……

……

……

3. Give six characteristics of dairy cattle. **(3mks**

……

……

……

……

……

……

……

4. What is the importance of crop rotation? **(2mks**

……

……

……

……

5. Give four features a good crop storage structure should have. **(4mks**

……

……

……

……

6 a) What is the importance of keeping livestock healthy? **(2mks**

……

……

……

……

b) Give four categories of diseases. **(2mks**

……

……

……

……

c) Give four signs of infestation by external parasites. **(2mks**

……

……

……

……

d) Outline six control methods of ticks. **(3mks**

……

……

……

……

……

……

……

e) Give six methods of controlling internal parasites of livestock. **(3mks**

……

……

……

……

……

……

7. Define the following terms; **(3mks**

a) Concentrates.

……

……

b) Roughage.

……

……

c) Ration.

……

……

d) Production ration.

……

……

e) Maintenance ration.

……

……

8.a) Give four differences between ruminants and non-ruminants**.** **(2mks**

……

……

……

……

b) Explain the functions of each of the stomach chambers in a ruminant stomach. **(4mks**

……

……

……

……

9.a) Define the term Artificial insemination. **(1mk**

……

……

b) Give six advantages of Artificial insemination. **(3mks**

……

……

……

……

……

……

……

……

c) Give four disadvantages of Artificial insemination. **(2mks**

……

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

QUESTIONS

1.Explain how the use of the Holy Spirit brought disunity in the church at Corinth **(7 marks)**

……

……

……

……

……

……

……

……

2.Explain how the unity of believers is expressed **(5 marks)**

……

……

……

……

……

……

……

3.Why is it important for Christians to pray **(6 marks)**

……

……

……

……

……

……

4.State the signs of the times of eschatology **(5 marks)**

……

……

……

……

……

……

5.Explain the importance of the transfiguration of Jesus Christ **(7 marks)**

……

……

……

……

……

……

……

……

6.Write down five reasons why Christians take part in the Lord's supper **(5 marks)**

……

……

……

……

……

……

7.a) What is a parable? **(2 marks)**

……

……

b)Give reasons why Jesus used parables in His teachings **(7 marks)**

……

……

……

……

……

……

……

8.List the twelve disciples Jesus appointed during His sermon on the plain **(6 marks)**

……

……

……

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

GEOGRAPHY

TIME: 2 HOURS

NAME……. ADM NO; …….

CLASS…… DATE…….

QUESTIONS

1.The table below shows the number of visitors in '000 to selected national parks in Kenya for the years 2006-2008.Use it to answer the questions that follows;

PARK/YR	2006	2007	2008
Nairobi	102	093	092
Amboseli	153	156	082
Tsavo	354	372	182
Lake Nakuru	327	347	138
Total	946	968	497

A)What is the difference in the number of visitors who visited the parks in 2006 and those in **2007?** **(1mk)**

B)Calculate the percentage increase in the number of visitors who visited lake nakuru national park between 2006 **and 2007.** **(2mks)**

C)Draw a compound bar graph to represent the number of visitors to selected national parks in kenya.Use the scale of 1cm to represent 100,000 visitors**.** **(10mks)**

GRAPH ATTACHED

D)State two advantages of using a compound bar graphs to represent geographical data**(2mks)**

……

……

……

2)The table below shows the approximate population of four districts in central province in 1999.Use it to answer questions that follows.

District	**population**
Murang'a	350,000
Maragua	390,000
Nyandarua	470,000
Thika	650,000
Total	1,860,000

A)Using a radius of 5cm draw a pie chat to represent the data above **(10mks)**

B)Apart from pie charts ,name two other statistical methods that can be used to represent data in the table **(2mks)**

……

……

C)Give three advantages of using a pie chart to represent data **(3mks)**

……

……

……

3)A. What is forestry**?** **(2mks)**

……

……

4) Explain four measures that the government of Kenya is taking to conserve forests in the country**.**

(8mks)

……

……

……

……

……

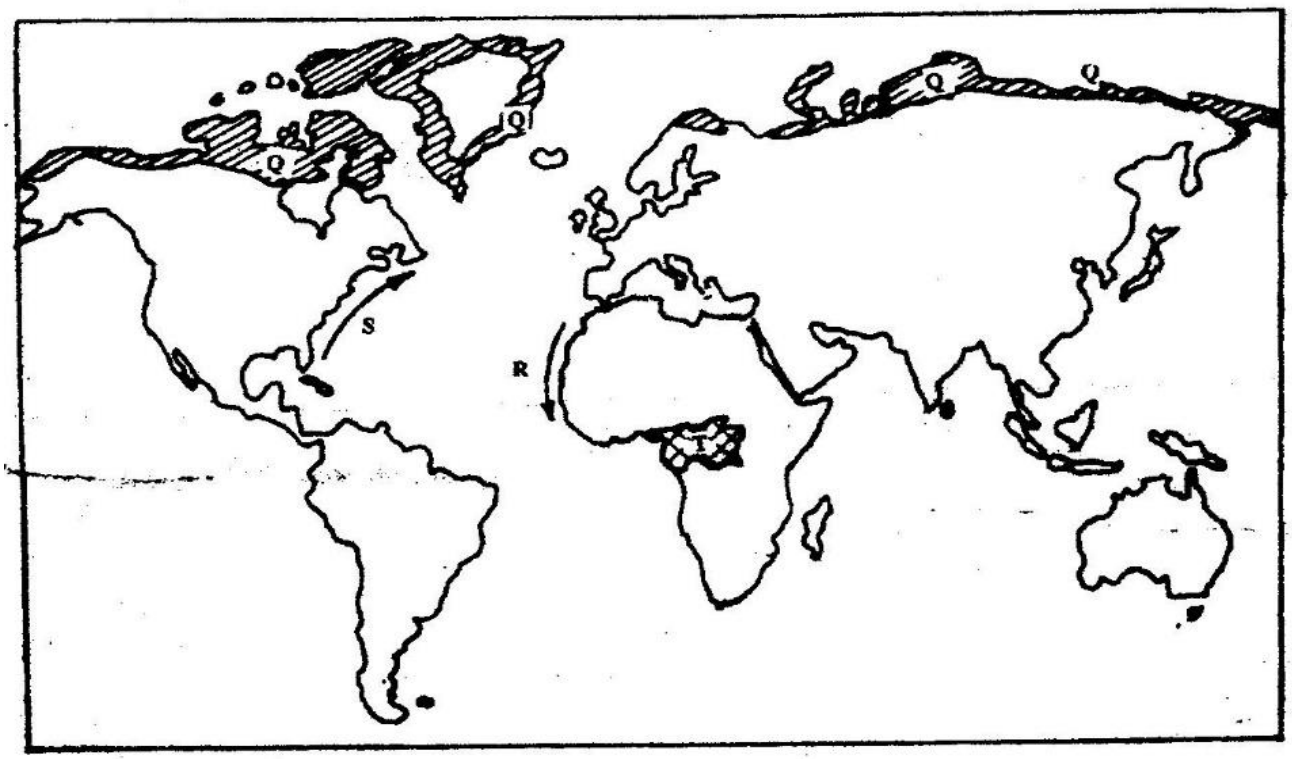
……

……

……

……

5)Use the map below to answer questions (a) and (b)



(a) Name:

(i) The type of climate found in the shaded area marked Q **(1mk)**

……

……

(ii)Describe the characteristics of the type of climate found in the shaded area marked T **(9mks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

HISTORY & GOVERNMENT

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

QUESTIONS

1. Name the body in charge of constitution making process in Kenya **(1mk)**

……

2. Give Five methods used to acquire colonies in Africa. **(5 mks)**

……

……

……

……

……

3. Identify four disadvantages of a written constitution ***(4mks)***

……

……

……

……

4. Identify two classes of human rights ***(2mk)***

……

……

5. Identify three aspect of democracy **(3 mks)**

……

……

……

6. What ways does education promote unity? **(2 mks)**

……

……

7. Give five merits of democracy**.** **(5 mks)**

……

……

……

……

……

……

8. Mention two disadvantages of representative democracy **(2 mks)**

……

……

9. Define a democratic system of Government **(1mk)**

……

……

10. State five terms that were agreed upon during the Berlin conference (1884 - 1885) by the European powers **(5Mks)**

……

……

……

……

……

……

11. Give four political factors that contributed to the scramble and partition of Africa. **(4 mks)**

……

……

……

……

……

12. Where was Samoure Toure of the Mandinka deported to after his capture in 1898**?** **(1mk)**

……

……

13. Give three communities that collaborated with Europeans in Africa. **(3mks)**

……

……

……

14. Explain five reforms that were introduced by the German administration after the Majimaji uprising**.** **(10mks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

15. Give TWO strategic factors that led to European invasion of Africa and the process of colonization **(2mkS)**

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

MATHEMATICS

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS TO CANDIDATES

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

2. *The paper contains two sections:* ***Section I*** *and* ***Section II***

3. *Answer* ***All*** *the questions in* ***Section I*** *and* ***strictly any two*** *questions* ***from Section II.***

4. *All answers and working must be written on the question paper in the spaces provided below each question.*

5. *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question*

6. *Marks may be given for correct working even if the answer is wrong*

7. *Non-programmable silent electronic calculators and* ***KNEC*** *mathematical tables may be used, except unless stated otherwise.*

SECTION 1 (30 Marks)

1. Evaluate the value of x in **(3mks)**

$81^{x+1} + 3^{4x} = 246$

2. Given that $3^{5x-2y} = 243$ and $3^{2y-y} = 3$; **(3mks)**

Find value of x and y

3. Use tables of reciprocals, square, square roots and cubes to evaluate the following correct to be 4 significant figures. **(4mks)**

a) $(0.06458)^{1/2} + (\frac{2}{0.4327})^2$

4. A straight line passes through A(-2,1) and B(2,-K). this line is perpendicular to the line 3y+2x=5. Determine the value of k. **(3mks)**

5. Two dogs which are regarded to be similar have length of their tails in the ration 4:3

i) If the bigger dog has a tail 64cm long; find the length of the tail of the smaller dog **(1mk)**

ii) If the smaller dog requires 810g of meat per day, determine the mass of meat per day required by the bigger dog **(2mks)**

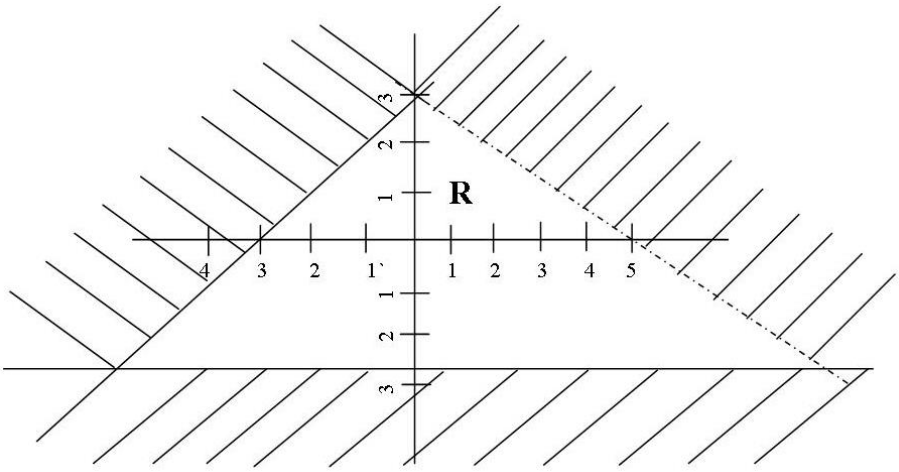
6. Solve for y Sin (3y - 30°) Cos (7y +50°) **(2mks)**

7. Simplify the expression below by factorizing numerators and **denominators** **(3mks)**

a) $\frac{4y^2 - x^2}{2x^2 - xy - 6y^2}$

8. Form three inequalities represented by region R in the figure below **(3mks)**

a)



9. The position vectors of points P and Q are P=2i + 3j – k and Q=3i – 2j +2k respectively. Find magnitude of PQ correct to 4 significant figures **(3mks)**

10. a) Work out the exact value of $R=\frac{1}{0.003146-0.003130}$ **(1mk)**

b) An approximate value of R may be obtained by first correcting each of the decimal in the denominator to 5 decimal places. Work out

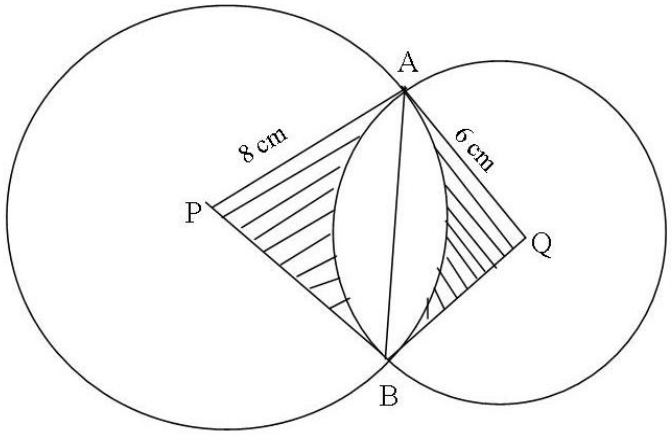
(a) The approximate value **(2mks)**

(b) The error introduced by the approximation **(1mk)**

11. The interior angles of a lexagon are $2x°$, $\frac{1}{2}x°$, $x+40$,110, 130° and 160°. Find the value of the smallest angle. **(2mks)**

SECTION II (20 mks)

12. The figure below shows two intersecting circles of radius 8cm and 6cm respectively. The common chord AB=9cm and P and Q are centres as shown in the figure below



i. Calculate the size of

i. <APB **(2mks)**

ii. <AQB **(2mks)**

ii. Find the area of the common unshaded region **(4mks)**

iii. Find the area of the shaded region **(2mks)**

13. A pole stands directly across the street from the building. The angle of depression of the top of the building from the top of the pole is 24.5° and angle of elevation of the pole from the foot of the building is 48.6°. given that the distance between the pole and the building is 50cm. calculate to 2 d.p

a) The height of the pole **(4mks)**

b) The difference in height between the pole and the building **(2mks)**

c) The height of the building **(2mks)**

d) The angle of elevation of the top of the building from the foot of the pole. **(2mks)**

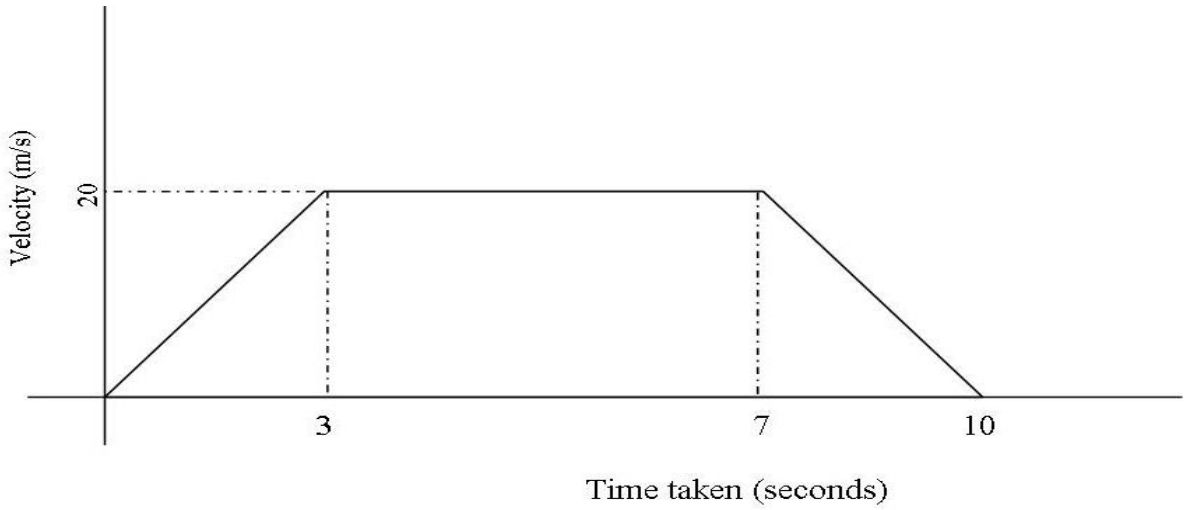
14. A passenger noticed that she had forgotten her bag in a bus 12 minutes after the bus had left. To catch up with the bus she immediately took a taxi which travelled at a speed of 95km/h. the bus maintained a speed of 75km/h. determine

a) The distance covered by the bus in 12minutes **(2mks)**

b) Time taken by the taxi to catch up with the bus **(4mks)**

c) The distance covered by the taxi to catch up with the bus. **(4mks)**

15. The velocity time graph below represents the motion of a car for 10 seconds



Find;

a) Rate of acceleration **(1mk)**

b) The rate of retardation **(1mk)**

c) Total distance travelled **(2mks)**

d) The total distance travelled during the first 4 seconds **(2mks)**

e) The average speed maintained during the entire journey **(2mks)**

f) The distance travelled at the constant speed. **(2mks)**

16. a) Draw the graph of $y=6+X+X^2$ taking integral values of x in $-4 \leq x \leq 5$. Using the same axes draw the graph of $y=2-2x$ **(2mks)**

b) From your graph find the values of x which satisfy the simultaneous equations **(6mks)**

$y=6+x-x^2$

$y=2-2x$

c) Write down and simplify a quadratic equation which is satisfied by the values x where the two graphs intersect. **(2mks)**

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

ENGLISH

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

(a) FUNCTIONAL WRITING

You are the secretary of Nyakebako High School Choir. The choir had been scheduled to be the main performer of a charity concert organized by Mjalie Mwingine Initiative. However, you were unable to offer the concert which prompted the organizers to call off the event. Through your principal, write a letter of apology addressed to the director of Mjalie Mwingine Initiative over the incident. **(20 marks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

2. POETRY

Read the poem below and answer the questions that follow:

The Face of Hunger
I counted the ribs on his concertina chest
Bones protruding as if chiseled
By a sculptor hand of famine

He looked with glazed pupils
Seeing only a bun on some sky-high shelf

The skin was pale and taunt
Like a glove of a doctor's hand
His tongue darting in and out
Like a chameleon's
Snatching courfettiof flies

Oh! Child
Your stomach is a den of lions
Roaring day and night
By Oswald MbuyiseniMtshali

QUESTIONS

1. Who is the persona in the poem**?** **(2mks)**

……

……

2. Identify the imagery used and show its effectiveness. **(6mks)**

……

……

……

……

……

……

3. Explain the meaning of the sentences

i Seeing only a bun on some sky-high shelf **(2mks)**

……

……

ii Your stomach is a den of lions roaring day and night **(2mks)**

……

……

4. What is the attitude of the persona towards the boy? **(2mks)**

……

……

……

5. What is the meaning of the following word**s** **(4mks)**

i chiseled

ii Glazed

iii Taut

ivCourfetti

6. What is the mood of the poem**?** **(2mks)**

……

……

……

3. GRAMMAR

1. Underline the adjectival phrases on the following sentences.

a Thank you for being so kind.

b My mechanic is quite skillful.

2. Rewrite the following sentences to remove gender bias.

aA professor should give his students opportunities to develop their skills.

b My sister was appointed chairman of the water project committee.

c The firemen took a long time to arrive at the scene of the accident.

b) Rewrite each of the following sentences, replacing the underlined word with a suitable phrasal verb.

a The suspect confessed after a long interrogation.

bNyamburarejectedWaiyaki's proposal for marriage.

C Our principal does not tolerate indiscipline.

c) Use the correct form of the verb given in brackets to fill in the blanks in the following sentences.

i The drama club patron wanted a written _____ from the students following their misconduct during the festivals (apologize)

ii Your explanation is based on too many _____ (presume)

iii Expectant mothers should not do _____ work (strain)

iv The government has lost all _____ following the increasing cases of corruption in high places (credible)

5 Use the correct form of nouns given in brackets

i Those _____(student) phones were confiscated.

ii There are many _____(hero) who fought for our independence.

iii How many _____ (editor-in-chief) were invited.

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

KISWAHILI

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSHA ALAMA 20

1. Anza kwa: Mwanangu, dunia imebadilika pakubwa. Lakini chunga mabadiliko hayo yasikuzuzue.....

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

MATUMIZI YA LUGHA

1) Tofautisha sifa za vipasuo /p/ na /b/ **(Al 2)**

……

……

……

2) Ni sifa zipi zinazotumiwa kuchunguza jinsi konsonanti zinavyotamkwa? **(al 3)**

……

……

……

3) Tambua vielezi katika sentensi ifuatayo **(al 2)**

- Hamali na Kibe wataenda Mombasa kesho kutwa.

……

……

……

4) Tunga sentensi mbili mbili kuonyesha maana tofauti za maneno uliyopewa**.** **(al 4)**

Mbuzi –

Mlango –

5) Akifisha sentensi ifuatayo **(al 3)**

- Bwana baraka huenda mjini kila jumapili kutazama mchezo wa kuigiza wa vioja mahakamani.

6) Bainisha aina za maneno katika sentensi zifuatazo **(al 4)**

a) Cheti cha pamoja kimepatikana

b) Lo! Fisi amepanda juu ya mti

7) Eleza maana mbili za sentensi ifuatayo **(al 2)**

Zubeda alimwandikisha Ali barua

……

……

……

8) Tambua nyakati katika sentensi zifuatazo **(al 2)**

(i) Jana kulinyesha mvua kubwa

(ii) Mimi ninajibu maswali

9) Tumia kirejeshi 'amba ' badala ya 'o' rejeshi katika sentensi ifuatayo. **(al 2)**

Uwanja uliopandwa miti ni wa mjombangu

10) Akifisha sentensi ifuatayo ili iwe katika hali tatu tofaut**i.** **(al 3)**

Rais amewasili

11) Eleza ritifaa imetumika vipi katika sentensi **(al 2)**

1. Ngombe wa jirani amepotea

2. Nilimwonya `ngawa hakun`sikia

12) Kanusha sentensi ifuatayo; **(al 2)**

Sungura amekufa

13) Geuza sentensi zifuatazo ziwe katika kauli ya **kutendea** **(al 2)**

(i) Kasiva aliandika barua ya indeche

(ii) Msetu alikula chakula cha motto

14) Andika sentensi zifuatazo kwa udog **(al 2)**

e) Mji huu una watu wengi

f) Meza yangu kubwa imevunjika

SEHEMU C: <u>ISIMU JAMII</u>

Long'i ni mia, pata na mia, pata na mia, hundred bob tu, kuona ni bure. Viatu ni za aina yote. Buda karibu ujionee. Niaje maze come tu..... Come tu, karibia ujionee. Hata za manzi ziko. Mali motomoto kutoka ng'ambo. Watu wote wabuy huku! Dungarees ni soo mbili.....za watoi na wasupa.

(a) Eleza muktadha wa mazungumzo haya. **(al 2)**

……

……

……

(b) Eleza sifa za lugha itumiwayo katika sajili hii kama zinavyojitokeza katika kifungu.

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

COMPUTER STUDIES

TIME: 2 HOURS

NAME……. ADM NO; …….

CLASS…… DATE…….

Instructions: Answer All The Questions On the Space Provided.

1. State three functions of a computer. **[3]**

……

……

……

……

2. Explain the difference between digital and analogue computers using a diagram. **[4]**

……

……

……

……

……

3. a) What is a computer laboratory? **[2]**

……

……

……

b) State four methods of minimizing dust in a computer laboratory. **[4]**

……

……

……

……

4. Why is it necessary to have a UPS in a computer laboratory. **[3]**

……

……

……

5. **a)** What is a computer keyboard. **[2]**

……

……

b) List four types of keys found on a computer keyboard. **[4]**

……

……

……

……

c) What is a toggle key. **[2]**

……

……

d) Name four toggle keys on a standard computer keyboard. **[4]**

……

……

……

……

6. a) List four differences between a microcomputer and a supercomputer. **[4]**

Micro computer	Super computer

b) State four advantages of using portable computers e.g. laptop. **[4]**

……

……

……

……

7. State four ways in which a computer may be used in efficient running of a hospital. **[4]**

……

……

……

……

8. State four types of computer output devices. **[4]**

……

……

……

……

9. Give four reasons why primary storage devices are not used for secondary storage. **[4]**

……

……

……

……

10. State one function of the following elements of a computer:

a) Hardware **[2]**

……

……

b) Software **[2]**

……

……

c) Liveware **[2]**

……

……

11. List four devices that use scanning technology that would be used to capture data directly from the source. **[4]**

……

……

……

……

12. State four factors to consider when selecting an input device for use in an organization. **[4]**

……

……

……

……

13. **a)** What is meant by the term user-friendly as used in software development. **[2]**

……

……

b) List and explain three types of user interfaces. **[6]**

……

……

……

……

……

……

……

14. **a)** State four advantages of word processors over manual typewriters. **[4]**

……

……

……

……

b) A student typed a letter in a word processor and the last line of the letter flowed to the second page. State four ways in which the student could have adjusted the letter to fit on one page without changing the paper size. **[4]**

……

……

……

……

c) List four arithmetic operations that can be performed on a row of numeric data in a word processing table. **[4]**

……

……

……

……

d) List three editing features of word processor. **[3]**

……

……

……

……

15. **a)** Briefly explain the following terms: **[7]**

Cell

……

……

Range

……

……

Label

……

……

Value

……

……

……

Worksheet

……

……

Workbook

……

……

Function

……

……

16. Mr. Kamau is a teacher at Kianda High School used Ms-Excel to process the marks obtained by his student during the term. The table below shows the details entered in the Ms-Excel worksheet

	A	B	C	D	E	F	G	H	I
1	Name	CAT1	CAT2	CAT TOTAL	EXAM	TOTAL MARKS	POSITION	GRADE	REMARK
2	Mark Jama	14	06	20	56	76	1		
3	Caleb Wekeza	13	08	21	34	55	6		
4	Kanini Mulue	10	04	14	59	73	3		
5	Justine Melanie	11	07	18	57	75	2		
6	Julia Wahome	06	09	15	48	63	5		
7	Austin Kilome	08	07	15	50	65	4		

Hints

CAT1 is out 15, CAT2 is out 15 and Exam is out 70

a) Give the formula used to calculate the Total Marks for Julia Wahome. **[2]**

……

……

……

b) Write a function that give each student his position in class based on the performance. **[3]**

……

……

……

c) Write a logical function that will display the following remarks in column I. **[3]**

Total Marks	Remark
0 - 49	Fail
50 - 59	Above Average
60 - 69	Fair
70 - 79	Good
80 - 100	Excellent

……

……

……

……

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

HOME-SCIENCE

TIME: 2 HOURS

NAME……. ADM NO; …….

CLASS…… DATE…….

SECTION A (40 MARKS)

Answer all the questions in the spaces provided.

1. Mention any 2 reasons why canvas shoes are suitable for sports**.** **(2mks)**

……

……

……

2. Suggest 3 ways of preventing scalds at home. **(3mks)**

……

……

3. Give the meaning of 'RICE' in the treatment of a sprain**.** **(2mks)**

……

……

……

4. Mention any 2 causes of shock. **(2mks)**

……

……

……

5.

Mention any 4 materials available for finishing a living room floor**.** **(2mks)**

……

……

……

……

6. Give 2 reasons why stainless steel is the best metal for making serving spoons. **(2mks)**

……

……

……

7. List any 3 methods of steaming food**.** **(3mks)**

……

……

……

8. Mention any 2 reasons for coating food before frying**.** **(2mks)**

……

……

……

9. Give 2 qualities of a good tracing wheel**.** **(2mks)**

……

……

……

10. Give any 2 advantages of an advertisement to the consumer**.** **(2mks)**

……

……

……

11. Give any 3 reasons why food should be fortified. **(3mks)**

……

……

……

12. List any 4 common nutritional disorders associated with lifestyle. **(2mks)**

……

……

……

……

13. Give any 3 functions of Ascorbic acid**.** **(3mks)**

……

……

……

14. Mention any 2 reasons for storing clothes when they are completely dry. **(2mks)**

……

……

……

15. Mention the 3 common types of patches**.** **(3mks)**

……

……

……

16. List any 2 reasons for drying white cotton clothes in direct sunlight**.** **(2mks)**

……

……

……

17. Give any 3 points on the care of an ironing board**.** **(3mks)**

……

……

……

……

SECTION B **(20MARKS)**

COMPULSORY QUESTION.

18. Your family is planning to visit and spend a weekend with relatives at a campsite. Giving reasons, describe how you would:

a) Launder a woolen sweater. **(10mks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

b) Clean a cemented floor. **(10mks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

SECTION C (40MARKS)

Answer any 2 questions from this section in the spaces provided at the end of this section.

19. a) State and explain any 5 methods of refuse disposal. **(10mks)**

b) State any 5 points on the choice oof a good clothes line**.** **(5mks)**

c) With reasons give any 5 factors to consider when choosing a cooking method. **(5mks)**

20. a) State and explain any 5 causes of malnutrition in Kenya today**.** **(10mks)**

b) Draw the 5 care label signs that show the following ; **(5mks)**

i) Chlorine bleach can be used.

ii) Drip dry.

iii) Do not dry clean.

iv) Use a hot iron.

v) Tumble dry.

c) State and explain any 5 factors to consider when choosing seams**.** **(5mks)**

21. a) Explain 5 disadvantages of drying clothes on the ground**.** **(10mks)**

b) Explain 3 qualities of laundry soap**.** **(6mks)**

c) Give 4 reasons for ironing clothes**.** **(4mks)**

FORM 3 TERM 1 OPENER EXAMS

SERIES 3

FRENCH

TIME: 2 HOURS

NAME……. ADM NO; …….

CLASS…… DATE…….

SECTION I COMPREHENSION 10PTS

Lisez les passages et repondez aux questions

Passage I

L'ordinateur est une machine qui fonctionne a l'électricité. Il a un mémoire électronique ; on dit un mémoire d'éléphant. La difference entre notre mémoire et celui de l'ordinateur est que l'ordinateur n'oublie jamais rien. Il travaille tres vite, rapide un eclair. L'ordinateur peut faire des calculs de plus de 600 millions d'addition en second.

Dans plusieurs pays, on utilise des ordinateurs presque partout : dans les bureaux, dans les hopitaux, dans les ecoles, dans les supermarches et dans les maisons. Parmi les traits physique d'un ordinateur, il y a l'ecran, le clavier avec ses touches, ses chiffres et la souris. On utilise un CD/ROM, une disquette, une imprimante quand on travaille a l'ordinateur.

Grace a cette machine, nous pouvons envoyer des emails et créer mes propres sites. La communication globale est plus facile et plus vite en ce moment.

QUESTION

Selon le texte, l'ordinateur a un mémoire d'elephant. Expliquez **1mk**

……

……

Qu'est-ce qui nous montre la rapidite d'un ordinateur? **1mk**

……

……

Nommez quatre lieux ou on peut trouver les ordinateurs **2mks**

……

……

……

Que pouvons-nous faire avec la machine ? **2mks**

……

……

……

Nommez trois parties d'un ordinateur **3mks**

……

……

……

PASSAGE II

L'economie kenyane

Le Kenya est particulierement avance dans le secteur des services et a été la source d'innovation adoptee sur tout le continent.

En 2017, il est devenu le premier pays a vendre les obligations d'Etats via des telephones portables. C'est egalement le 3e producteur du the, et le premier exportateur (en volume au monde), le 8e producteur des haricots sec et fait partie des 20 plus grands exportateurs du cafe FAO.

QUESTIONS

Nommez trois produits agricoles du kenya **1mk**

……

……

……

Qu'est-ce qui s'est passe au Kenyua en 2017. **1mk**

……

……

SECTION II GRAMMAIRE

I Ecrivez au pluriel 10mks

C'est un ami amusant

C'est un homme heureux

C'est une langue étrangère

C'est un bon film

C'est une chambre agréable

II réécrivez les phrases suivantes en utilisant 'avoir mal (10mks)

Les genoux nous font mal

Ma tete me fait mal

Les yeux te font mal

La gorge lui fait mal

Les oreilles leur font mal

III Ecrivez la forme correcte d'auxilliare 'etre' et 'avoir'dans les phrases suivantes 10mks

Elle _____ mange un gateau

Nous _____ partis en vacances

Est-ce vous _____ alles au restaurant ?

Philipe _____ fini son dessert

Est-ce que tu t'_____ douche

IV Repondez les questions suivantes avec 'SI' 5mks

Les enfaints ne regardent pas un film ?

Si,

Juliette ne fait pas le menage ?

Si,

Pierre ne voyage pas avec ses amis ?

Si,

Tu ne vas pas en ville aujourd'hui ?

Si,

Francois ne se leve pas a huit heures ?

Si,

V Reecrivez les phrases suivantes au futur proche 10pts

Pierre travaille a Londres

Les petits enfants vont a l'ecole maternelle

Tu habites en Belgique?

La mere et sa fille vendent des fleurs

Vous etudiez beaucoup de langues etrangeres

VI Conjuguez et réécrivez les phrases en numéro V a la forme négative 10pts

1

2

3

4

5

VI Utilisez lui, le, la, leur, l', les 10pts

Je parle a un ami

Oui,

Nous regardons les oiseaux

Non,

Est-ce que tu ecoute la musique rwandaise?

Non,

Vous montrez les devoirs aux professeurs

Oui,

Je cherche la gomme de Suzane

Oui,

VII Repondez aux questions suivantes 5pts

Quel age as-tu ?

Quel est votre repas favori ?

Quel sport pratiquez-vous a l'ecole?

Vous etes combien dans votre famille?

Vous etes dans quelle type d'ecole?

Section III Dictation **5mks**

1

2

3

4

5

Section IV Redaction

Imaginez que tu es malade et tu as visite votre docteur. Ecrivez la conversation **15pts**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

THE END

FOR THE FOLLOWING;

- ✓ ONLINE TUITION
- ✓ REVISION NOTES
- ✓ SCHEMES OF WORK
- ✓ SETBOOKS VIDEOS
- ✓ TERMLY EXAMS
- ✓ QUICK REVISION KITS
- ✓ KCSE TOPICALS
- ✓ KCSE PREMOCKS
- ✓ TOP SCHOOLS PREMOCKS
- ✓ JOINT PREMOCKS
- ✓ KCSE MOCKS
- ✓ TOP SCHOOLS MOCKS
- ✓ JOINT MOCKS
- ✓ KCSE POSTMOCKS
- ✓ TOP SCHOOLS PREDICTIONS
- ✓ KCSE PREDICTIONS
- ✓ KCSE REVEALED SETS

Call/Text/WhatsApp

0746 222 000 / 0742 999 000

mwalimuconsultancy@gmail.com

This is a Copyright Property of Mwalimu Consultancy Ltd.

Powered By Mr Isaboke

SUCCESS