

ST. GEORGE'S GIRLS' SECONDARY SCHOOL, NAIROBI

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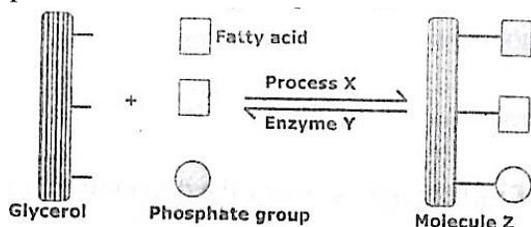


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FORM ONE DECEMBER HOLIDAY ASSIGNMENT 2018

Form 1: Biology Holiday Assignment

1. State **four** functions of Hydrochloric acid secreted by gastric glands in the human alimentary canal. (4marks)
2. Name the first organ the digested food reaches after leaving small intestines. (1mark)
3. Give **two** reasons why Sodium Chloride is included in your diet? (2marks)
4. Which type of tooth
 - a) Is not present in the milk set? (1mark)
 - b) Is usually not present in herbivores? (1mark)
5. The diagram below represents a biological process.



- a) Name the: (3marks)
 - (i) Process X
 - (ii) Enzyme Y
 - (iii) Molecule Z
 - b) Suppose the phosphate group is replaced with another fatty acid, what will be the name of the resultant molecule? (1mark)
 - c) State **four** functions of lipids. (4marks)
 - d) Give **two** differences between fats and oils. (2marks)
6. Maltose ($C_{12}H_{22}O_{11}$) is a disaccharide made from two glucose ($C_6H_{12}O_6$) molecules. Why is the

formula of maltose $C_{12}H_{22}O_{11}$ and not $C_{12}H_{24}O_{12}$? (1mark)

7. Using a well labeled diagram, describe the internal structure of a leaf. (20marks)

NB: Revise the End of Year Exam 2018

Form 1: Business Studies

1. Write down the meaning of the following terms as used in business:
 - a) Bilateral Trade
 - b) Multilateral trade
 - c) Wholesale trade
 - d) Retail trade
2. Highlight the characteristics of itinerant traders.
3. Highlight reasons why customers prefer buying from a supermarket to other forms of retailers.
4. List down five characteristics of chain stores.
5. Outline four functions of retailers to consumers.
6. Copy the following table and complete the blanks.

Name of Document	Purpose of Document	Issued By
a) letter of inquiry	_____	Buyer
b) Local purchase order	_____	Buyer
c) Invoice	To demand payment	_____
d) _____	To correct undercharges	Seller

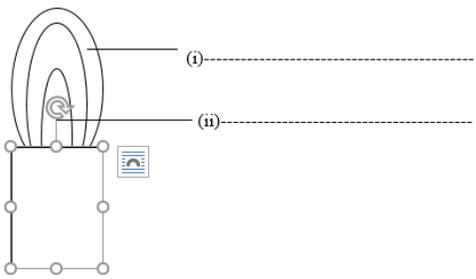
7. Highlight reasons why a cheque may be dishonoured.
8. State the types of information that a buyer may extract from a statement of account.

iii) Name liquid X. (1mk)

iv) Why it is advisable to detach the delivery tube before the burner is put off? (1mk)

 What should the delivery tube be slanted? (1m)

7. Label the parts of the flame drawn below. (2mks)



a) What type of flame is shown above? (1mk)

b) State any two differences between luminous and non-luminous flame on account of their colour and number of zones. (2mk)

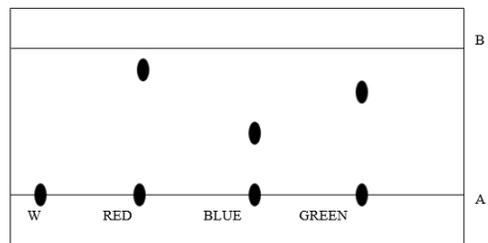
c) How is the above Bunsen flame obtained? (1m)

d) Under certain condition, a Bunsen burner flame is bright in colour. What causes this change? (1mk)

e) Striking back is occasionally observed in a Bunsen flame. What is striking back? (1mk)

f) Define the term 'flame' (1mk)

8. The figure below shows a paper chromatogram for a pure substance w.



a) What is chromatography (1mark)

b) Given that W contains blue and green dyes, show on the diagram the chromatogram of W. (1mark)

c) Identify two factors about the red dye that make it move further than the blue and green dyes. (2marks)

i) Explain why common apparatus used to measure volume of liquids accurately are narrow. (1mark)

ii) Name two such apparatus used to measure volume in the laboratory, (2mark)

9. Name the most suitable technique for obtaining. (4 mark)

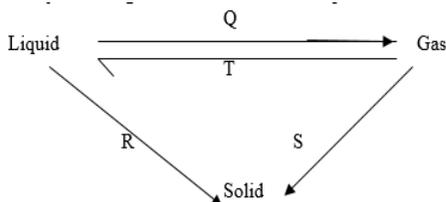
a) Copper (II) Sulphate dissolved in water.

b) Iodine from iodized table salt.

c) Iron from a mixture of Iron and gold.

d) Pebbles /stones from paraffin.

10. Study the changes below and answer the questions that follow.



- a) Add an arrow to show sublimation on the diagram (1mark)
- b) State the process labelled (4marks)
- i) Q - _____
 - ii) R - _____
 - iii) S - _____
 - iv) T - _____

11. Name two common solvents. (2mark)

a) State four differences between a permanent and a temporary change (4 mark)

b) State the main difference between a chemical and physical change. (1mark)

12. Define the following terms

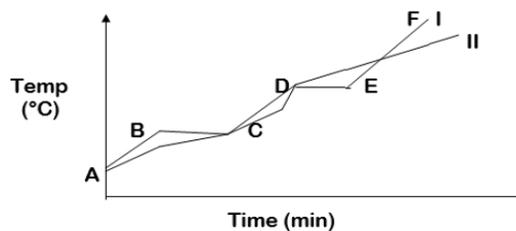
a) Sublimation (1mark)

b) Homogenous mixture. (1mark)

c) Compound (1mark)

d) Element (1mark)

13. The curves below represent the variation of temperature with time. When pure and impure samples of a solid were heated separately.



a) Which curve shows variation in temperature for the pure solid? (1mark)

b) Explain your answer in (a) above. (1mark)

c) Identify the state of the substances at region. (2marks)

i) A: _____

B: _____

ii) E: _____

F: _____

d) Point out two differences between I and II at regions BC and DE. (2marks)

14. a) Fill the table below: (3mark)

Element	Chemical symbol
Nitrogen	
Iron	
Sodium	
Phosphorous	
Potassium	

b) Name and count the elements present in the following compounds.

i) Na_2CO_3 , $NaHCO_3$, $2H_2O$ (4mark)

ii) $CuSO_4 \cdot 5H_2O$ (4 mark)

15. State FIVE benefits of chemistry in the society today. (5mks)

16. Give 4 reasons why you think it is important to learn chemistry. (4mks)

Form 1: CRE Holiday Assignment
Term 3 2018

1. How did the old people prepare for death in the traditional African communities
2. Explain **five** ways initiation rites inculcated moral values in Traditional African Community.
3. State **five** ways the Kenyan Government is promoting African culture.
4. Outline rules and regulation that an expectant mother is expected to observe in Traditional African society.
5. State **five** changes that have taken place in property ownership today.
6. Explain the purpose of bride wealth in the traditional African community.
7. Explain the factors weakening kinship ties among Africa communities.
8. Explain the Traditional African practices which show that life is sacred.

Form 1: French Holiday Assignment
Ecrivez une rédaction sur

- i) MA FAMILLE
- ii) MON AMI

A. Utilisez votre dictionnaire pour écrire la liste de catégories suivantes.
(Ensure the correct articles are used before each noun)

- i) Les animaux domestiques- 5
- ii) Les animaux sauvages- 5
- iii) Les oiseaux- 5
- iv) Les couleurs-5
- v) Les magasins- 5
- vi) Les meubles 5
- vii) Les fruits- 5
- viii) Les légumes-5
- ix) Les sports-5
- x) Les moyens de transport-5

JOYEUX NOEL ET MEILLEURS VŒUX DE NOUVEL AN

Form 1: English Holiday Assignment
Term 3 2018

1. Functional Writing

The school has reopened for second term. The teachers are unlikely to teach from Tuesday to Friday of this week. Keep a diary to include the activities you will engage in during the four days. (20 marks)

2. Comprehension

Read the passage below and then answer questions that follow.

Some people call it Sustained Silent Reading, or SSR for short. Others call it recreational reading or independent reading. Some have clever acronyms for it, such as DIRT (daily independent reading time) or DEAR (drop everything and read). Whatever it's called, many teachers set aside a block of time each day

- usually anywhere from ten to thirty minutes, depending on the class level and the ability of the students
- for quiet reading.

Sustained silent reading can serve many purposes. Most school reading is **assigned** reading. SSR offers students an opportunity to read material of their own choice. During SSR time, many students learn that they can use their word attack skills to figure out new words – on

their own! SSR can also build students' confidence in their abilities to work through reading trouble spots. Many studies of whole-class groups and of select groups of unmotivated readers show that SSR can result in students wanting to read more. The amount of time that students spend reading **independently** outside of school often increases as a result of SSR, parents report. Often children ask for books to read at home. SSR can be one more element in a reading program aimed at demonstrating the joy that reading can bring and developing lifelong readers and learners.

SSR takes many forms. In some schools, individual teachers include sustained silent reading as part of their programs. In other schools, SSR has been adopted school wide. In many schools a special time is set aside each day when every student (and every teacher and staff person, including the principal and the custodian!) is expected to "drop everything" and read silently. Indeed, the main thrust behind most SSR programs is to demonstrate to students that pleasure-reading is something to be valued by all. In some classrooms, students select from a predetermined reading list. Or they select from a bin of books color-coded to indicate reading level. But most teachers give students the freedom to choose a book that they think they'll enjoy. Often teachers encourage students to select books that aren't too difficult.

For some teachers, SSR is "private reading" time for students. Students can read anything and they don't have to report on what they've read. Many other teachers provide follow-up activities for sustained silent reading time. Some teachers have students keep logs of their silent reading. Others bring together the class once a week to talk about what they've been reading. (These discussions can **motivate** other students; others might choose their next book based on the recommendation of one of their

peers.)

Some teachers divide their classes into small groups, so students can share their thoughts about the books they're reading. Sometimes teachers provide a question that will serve as the focus of the group discussion. The discussion question might support the curriculum, focusing attention on the climax, or the author's point of view, or some other element of literature that the teacher has introduced in class.

- a) Give **three** names given to quiet reading according to the passage. (3 marks)
- b) Mention **two** factors a teacher consider when setting time for quiet reading. (2mks)
- c) State **five** reasons for silent reading according to the passage. (5 marks)
- d) Identify **two** forms sustained silent reading takes. (2 marks)
- e) Why do some teachers bring together the class once a week to talk about what they've been reading? (2 marks)
- f) Mention **three** things questions given to small groups of students during the SSR can focus their attention on. (3 marks)
- g) Give the meaning of the following words as used in the passage. (3 marks)
 - i) Assigned
 - ii) Independently
 - iii) Motivate

1) **Cloze Test**

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

It's school time again! You're probably feeling excited and maybe a little sad that summer is over. ...1...students feel nervous or a little scared on the first day of school because of all the new things: new teachers, new friends, and

maybe even

...2...new school. Luckily, these "new" worries only stick around

...3.... a little while. Let's find out ...4... about going back to school.

Most teachers kick off the school year by introducing ...5.....and talking about all the stuff you'll be doing that year. Some teachers give students a chance to tell something ...6... themselves to the rest of the class. What do you look forward to the most about going back to school?

When teachers do the talking on the first day, they often ...7..... over classroom rules so you'll know what's allowed and what's ...8... Pay close attention so you'll know if you need to raise your hand to ...9...a question and what the rules are about visiting the restroom.

As for you teachers, you might already know a lot of kids in your classes on the first day. But it's a great day to make a new friend, so ...10.... to say hello to kids you know and new ones that you don't. Make the first move and you'll be glad you did and so will your new friend!

2) **Oral Skills**

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

Lisa had a **blue** cat
Who inside her hat Lisa had **eight** other cats
Who often lots of rats The cats **made** a big mess one day
And then the began to say. "You have **too** many cats!
..... on your head And seven under your bed"
Now Lisa **knows** all this
So she tapped her and said "Hey Miss!
My **dear** maid, everything you say Is true
So I'll trade my nine cats for nine

..... that's what I'll do!"

i) Fill each blank space with the word pronounced exactly the same way as the word boldfaced just before it. (6 marks)

ii) From the poem, identify a word whose pronunciation differ with one sound with: (6 marks)

- iii) I. Cat
- II. Rats
- III. Day
- IV. You
- V. Miss
- VI. Said

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

TIMOTHY: Riddle! Riddle!

ALL : Riddle come.

TIMOTHY: A child's porridge is delicious.

WAITITU: Banana

TIMOTHY: No

MUTHAMA: Tea

TIMOTHY: That's equally wrong. Offer me a prize and I will unravel the riddle.

WAFULA: We have given you Narok town.

TIMOTHY: Went to Narok and the children there gave me the answer as sleep.

i) Name:

I. The respondents. (3 marks)

II. The challenger. (1 mark)

ii) Identify the following parts of the riddling convention evident. (6marks)

I. Solution

II. Guesses

III. Acceptance

IV. Prize

V. Challenge

VI. Pose

b) **Underline the silent letter in:** (4 marks)

- i) Muscle
- ii) Honest
- iii) Knead
- iv) Receipt

1. GRAMMAR

a) **Rearranged the jumbled up letters in brackets to form the correct word. Use the word to fill in the blank space.** (5 marks)

- i)the boy who stole from you. (srcdibee)
- ii) She islazy. (lclabiasy)
- iii) Youris painting her floor. (heniroubg)
- iv) The news he saddening. (cereidev)
- v) Do youin luck? (eiveleb)

b) **Punctuate the sentences that follow correctly.** (5 marks)

- i) nairobi is the capital of Kenya.....
- ii) this morning i saw birds cows sheep and camels
.....
- iii) get out
.....
- iv) can you speak French
.....
- v) I have been to
ghana.....

c) **Fill in the most suitable form of the word in brackets.**(5 marks)

- i) She saw (I)
- ii) Theyall the stamps last month.
(collect)
- iii) I rhumba music. I prefer gospels.
(like)
- iv) Of late Emma to school even during
the weekends. (go)
- v) Linet cannot believe her own
(stupid)

d) **Fill in the blank spaces with the correct forms of the words given in brackets.**
(3mks)

- i) Ndeko still wants more food even after clearing a whole plateful of ugali. His appetite is simply _____ (satisfy).
- ii) After the inferno, the Roche's had to buy new _____ (furnish) for their house.
- iii) The_____ (broad) of the material could not easily be established.

e) **Without changing the meaning of the sentence, rewrite the sentence according to the instruction given.** (5 marks)

- i) We ate the meat.
Begin: did
- ii) He bought the flowers on Thursday.
Begin: when
- iii) We prepared the whole meal without anyone's assistance.
Replace the underlined words with one word
.....
- iv) He has broken a pencil that belongs to him.
End with: ...pencil.
.....
- v) He is the taller of the two.
Correct the mistake.....

Form 1: Geography Holiday Assignment T3 2018

- 1. a) What is wind
b) Explain how wind is measured using the following instruments:
 - Wind vane
 - Wind sock
 - Anemometer
- 2. a) Identify the planetary wind systems found in the Northern and southern hemisphere.

b) Using a well labeled diagram explain how land and Sea Breezes affect the weather of a given region.

3. a) Briefly explain the structure of the atmosphere using appropriate diagram.

b) i) What is weather forecasting?

ii) Explain the benefits of weather forecasting to human activities.

4. a) State two types of statistical data.

b) Identify various methods used for collecting statistical data.

5. a) Describe four methods used in recording data.

b) What are the advantages of using a simple bar graph in presenting statistical data?

Form 1: Music Holiday Assignment

(i) Define music

(ii) State the elements of music

(iii) Explain each of the elements listed above.

1. (a) Identify time signatures in each of the categories given below.

i) Simple Duple Crotchet beat

ii) Simple Triple Quaver beat

iii) Simple Quadruple Crotchet beat

iv) Compound Duple Quaver beat

(b) State the length of these notes

i) Semibreve

ii) Quaver

iii) Minim

iv) Crotchet

2. (a) (i) Name the technical degrees of a major scale.

(ii) Against each technical note write the corresponding solfa note.

(b) (i) Define pitch.

(ii) Name two types of musical sound

(c) Explain the following

(i) Timbre

(ii) Volume

(d) State the difference between a folksong and a folk dance.

3. (i) Draw a Nyatiti

(ii) Label the parts

(iii) State the functions of any three parts

Form 1: Physics Holiday Assignment

1. Differentiate between basic physical quantities and derived quantities (2 marks)

2. Identify the **four** precautions to be observed when using a density bottle. (2 marks)

3. Define pressure and state its SI units.(1mark)

4. Explain why a person makes deeper marks while walking on a soft ground in very narrow and sharp – heeled shoes than when in ordinary shoe with flat heels (2 marks)

5. A man of mass 84 kg stands upright on a floor. If the area of contact of his shoes and floor is 420 cm^2 , determine the average pressure he exerts on the floor. (Take $g = 10 \text{ Nkg}^{-1}$). (3marks)

6. What is the volume? (1mark)

7. Describe how you would measure the volume of a cork using a sinker, a thread, a measuring cylinder and water only. (4 marks)

8. Differentiate between the mass and the weight (2 marks)

9. 1800 cm^3 of fresh water of density 1000 kg/m^3 is mixed with 2200 cm^3 of sea water of density 1025 kg/m^3 . Calculate the density of the mixture. (3 marks)

10. Explain **two** factors affecting surface tension. (2 marks)

11. A man wants to fit a brass ring tightly onto a steel rod of diameter equal to the inner diameter of the ring. Explain how this can be achieved. (3 marks)

12. i) Describe the differences between the solids, liquids, and gases in terms of the arrangement of molecules. (4 marks)

ii) Explain why the smell of rotten eggs broken at one end of the room soon spreads throughout the room.

iii) State **two** advantages of thermal expansion.
(1 mark)

13. a) Distinguish between natural and forced convection currents. (2 marks)
b) Explain why many houses in hot areas like Mombasa should be painted white while those in colder places like Timboroa should be painted with dull colours. (2 marks)
c) Discuss how the thermos flask works to keep its content at a fairly constant temperature. (4 marks)

14. a) Distinguish between luminous and non-luminous objects giving two examples in each case
b) Light travels in a straight line. Using a well labeled diagram, describe a laboratory experiment to verify this fact. (4 marks)

15. a) i) Define magnification (1 mark)
ii) An object of height 5 m is placed 10 m a way from a pinhole camera. Calculate the size of the image if its magnification is 0.01 (3 marks)

b) Using a well labeled diagram, describe an experiment to illustrate the image formed in a pinhole camera.

16. (a) Define an eclipse
(b) (i) Differentiate between a real image and a virtual image
(ii) Using well labeled diagrams, explain the differences between the lunar eclipse and solar eclipse.
17. i) What is the relationship between the angle of incidence ray and the angle of the reflected ray.
ii) Differentiate between regular and diffuse reflection. (2 marks)
iii) Describe an experiment to verify the laws of reflection (4 marks)

18. a) (i) State the **two** characteristics of the images formed by a plane mirror. (2 marks)

ii) Locate the image of the word formed on the plane mirror (1 mark)

B E T

- b) i) A sphere of diameter 6.0 cm is moulded into a thin uniform wire of diameter 0.2 mm. Calculate the length of the wire in metres (Take $\pi = \frac{22}{7}$) (4 marks)
ii) State and explain **two** advantages of anomalous expansion of water. (4 marks)

Form 1: Kiswahili Holiday Assignment

USHAIRI (AL. 20)

MASPONSOR MWATAKANI?

Kalamu i kibindoni,moyo waenda mbioni,
Nimejawa mawazoni,machochi ni kilioni,
Chakula sikitamani,maji 'sakama kooni,
Mabinti watupokonya,masponsor mwatakani?

Maadili ja ndotoni,mababu ni makaini,
Mekuwa ja hayawani,heri tahira jamani,
Watu 'zima sikizeni,ja matope akilini,
Mabinti watupokonya,masponsor mwatakani?

Metamalaki vyuoni,ljumaa magarini,
Milolongo safarini,kuelekea klabuni,
Mababu wa mabusuni,'shikiliwa vifuani,
Mabinti watupokonya, masponsor mwatakani?

Mabinti wa taabani,pesa chocheo yaani,
Mapenzi hawathamini,pesa wanaabuduni,
Maadili hawanani,pesa kwao kuwa dini,
Mabinti watupokonya, masponsor mwatakani?

Pesa meweka mbeleni,utu ja kutu jamani,
Kikosa tupwa kapuni,kuokotwa na Manani,
Ugonjwa umasikini,ukosefu hatiani,
Mabinti watupokonya,masponsor mwatakani?

Wako asoma shuleni,waharibu masikini!
Ghafuri yuko machoni,akuona matendoni,
Akupangia shimoni,kisasi 'takulipeni,
Mabinti watupokonya, masponsor mwatakani?

Umeoa harusini, magonjwa watafutani!
Watoto wako nyumbani, jibaba waheshimuni!
Heshima yako thamini, usichezee jamani!
Mabinti watupokonya, masponsor mwatakwani?

Hamtaki tuoeni? nawauliza semeni,
Nahitaji nijubuni, kapera tusalieni,
Waleta shida ndoani, loharibika 'tupeni,
Mabinti watupokonya, masponsor mwatakwani?

Wamezoea kuhongwani, hawana na simileni,
Subira na hawanani, wataka mabilioni!
Mke wa pili oeni, mipango kando acheni,
Mabinti watupokonya, masponsor mwatakwani?

Kuavya mimba jamani, kujitoa lawamani,
Kijusi yuko tumboni, anatiwa hatiani,
Wana mawe vifuani, watu heri hayawani!
Mabinti watupokonya, masponsor mwatakwani?

Wazazi na shaurini, wasichana wa vyuoni,
Tamaa 'weke pembeni, wasitukane ukeni,
Marika na wapendeni, kutumiwa 'siamini,
Mabinti watupokonya, masponsor mwatakwani?

Laana mwatafutani, msamaha asilani,
Jalali muombemeni, madhambi nyinyi tubuni,
Mtaungua motoni, mapema shika imani,
Mabinti watupokonya, masponsor mwatakwani?

Nimefika tamatini, nimechafuka moyoni,
Nachana kuandikeni, nisiugue afkani,
Nimefika ukingoni, ninatua jahazini,
Mabinti watupokonya, masponsor mwatakwani?

MASWALI

- Taja kichwa kingine mwafaka cha shairi hili. (alama 1)
- Tambua na ueleze namna mtunzi amezingatia utunzi wa mashairi. (alama 4)
- Eleza muundo wa shairi hili. (alama 4)
- Kwa kutoa mifano tambua mbinu ya lugha kutoka kwa shairi hili. (alama 1)
- Je unadhani ni nini kinafanya wasichana wa sasa kuwa na 'masponsor'. (alama 3)
- Kwa maoni yako unadhani ni nini kinafaa kufanywa ili kudumisha nidhamu ya kale kwa wasichana wetu. (alama 4)
- Eleza maana ya maneno haya kama yalivyotumiwa katika shairi.

- Kibindoni
- Tahira
- Ghafuri

Fasihi Simulizi. (al. 30)

- Semi ni nini? (al. 1)
- Taja mifano nane za semi (al. 4)
- Fafanua sifa tano za semi (al. 5)
- Eleza umuhimu wa semi. (al. 9)
- Toa mifano tatu kudhibitisha kuwa semi ni aina ya Sanaa. (al. 3)
- Tofautisha kati ya methali na vitendawili (al. 6)
- Eleza maana ya nahau zifuatazo: (al. 2)
 - Piga maji.
 - Kwenda nguu.

Form 1: Art Holiday Assignment

- Summarise all your notes in the following topics.
 - Introduction to Art and Design.
 - Elements and Principles of Art and Design.
 - Drawing.
 - Painting.
 - Graphic Design.
- Construct the following statement in Roman typeface lowercase except for the first letter of the statement which should be in uppercase. The letters should be in 2-Dimension and painted in black colour to give clarity, precision and boldness. Use A3 space.

“ The quick brown fox jumped over the lazy dogs.”

Form 1: Home Science H/Assignment Term 3 2018 TOPIC-TEXTILE FIBRES.

- Give two disadvantages of clothes which produce static electricity. (2 mrks)
- State two uses of mineral fibres in clothing. (2 mrks)
- Giving a reason in each case, suggest four properties which make acetate fabrics suitable for making garments. (8 mrks)
- State two observations to make when carrying out the burning test on fibre identification. (2 mrks)

5. Explain three advantages and three disadvantages of using cotton fabric for a night wear. (6 mrks)
6. Suggest two advantages of blending fibres. (2 mrks)
7. State two reasons why cotton fabrics are popular for table linen. (2 mrks)
8. Identify two fibres in each case with the properties listed below: (10 mrks)
 - a). Stronger when wet.
 - b).weaker when wet
 - c).elastic
 - d).lustrous
 - e).flare up with yellow flame
9. Give two reasons why silk is expensive. (2mks)
10. Other than burning test,state two ways of identifying fibres (2mks)
11. Give two reasons why wool is not suitable for underwears. (2 mrks)
12. Explain four desirable qualities of a fabric for making a school blouse/shirt. (8 mrks)
13. Explain four factors to consider when selecting fabric for the school blouse (8 mrks)
14. Explain four properties of cotton that make it suitable for pajamas. (8 mrks)
15. What is a fibre?(2 mrks)
16. Differentiate between regenerated fibres from synthetic fibres.(2 mrks)
17. Give two reasons why cotton is not suitable for curtains.(2 mrks)
18. State two qualities that make linen suitable for a blouse. (2 mrks)
19. Give three reasons why wool is not suitable for sports wear. (3 mrks)
20. State three desirable properties that make silk suitable for an evening wear (3 mrks)
21. Mention three uses of asbestos as a fibre. (3 mrks)
22. Explain five properties that make polyester fibres have a very high demand today. (10 mrks)
23. a).What is “blending” in textile fibres?(2 mrks)
b).Why is it useful in clothing manufacture?(2 mrks)

24. Mention two chemicals that can dissolve in acetate rayon. (2 mrks)
 25. State two reasons why acrylic is suitable for school sweaters. (2 mrks)
- N.B: 80% OF THE HOLIDAY ASSIGNMENT WILL BE IN THE ENTRY CAT 2019.

Form 1: Computer Studies Holiday Assignment

1. Differentiate between application software and operating system.
2. Define GUI, icons and shortcuts.
3. Explain how to use the recycle bin.
4. Define software.
5. Define file system and identify its purpose.

Form 1: Agriculture Holiday Assignment

1. State five characteristics of a fertile soil
2. Outline eight ways through which soil losses fertility
3. What is the importance of organic manure in the soil?
4. Outline the factors that determine the quality of farmyard manure
5. Outline eight reasons for keeping farm records
6. List four types of inventory records and differentiate them
7. List down four pieces of information recorded in a marketing record
8. What is the importance of the muscles roll records?
9. List four types of farm records kept by a livestock production farmer

Form 1: Mathematics Holiday Assignment

1. What is the value of $\frac{26+8^2+6^2-56\div 7\times 2}{3+2}$
3mks
2. In the number 3078642, the total value of digit 7 is added to the total value of digit 4. Write the number formed,
3mks
3. Solve the following .3mks
 $\frac{3}{5} + \frac{1}{4} \left(\frac{1}{2} - \frac{1}{5} \right) \text{ of } \frac{2}{3} \div \frac{1}{3}$

4. The following are prime factors of three numbers:

$$2^2 \times 3^2$$

$$2^3 \times 5^1$$

$$2^4 \times 3^2$$

What is the L C M of the three numbers

3mks

5. Betty has three strings measuring 252 cm, 567cm and 378cm. She wants to cut them so that all pieces are equal in length, what is the longest possible size that each piece of string would be?

3mks

6. A rectangular tank is 7.5m long, 5m wide and 3.2 m high. How many litres of water can it hold when full?

3mks

7. Tuku spent $\frac{1}{3}$ of his salary on school uniform, $\frac{1}{4}$ on books, $\frac{2}{3}$ of the remainder on food and saved the rest. What fraction of his salary did he save and spent on food?

3mk

8. Simplify the following expressions by reducing it to a single fraction

3mks

$$\frac{2x-5}{4} - \frac{1-x}{3} - \frac{x-4}{2}$$

9. Four machines give out a signal at intervals of 24 seconds, 27 seconds, 30 seconds and 50 seconds. At 5.00 pm all four machines give out a signal simultaneously. At what time will this happen again? .

4mks

10. The exterior angle of a regular polygon is an eighth of the interior angle. How many sides does the regular polygon have? (3 marks)

11. The perimeter of a rectangular field is 56 m. The length of one of the sides is 7m. What is the area of the field?

3mks

12. A tank contained 22.5m^3 of water. More water was poured in to the tank at the rate of 1.45m^3 per minute. The tank was full at the end of 30

minutes. What is the capacity of the tank in litres? 4mks

13. The G. C. D of three numbers is 21 and their L. C. M is 630. Two of the numbers are 42 and 105. Find the third number.

3mks

14. Express 10500 in terms of its prime factors in power form.

3mk

15. Sixteen men working 9 hours a day can complete a piece of work in 14 days. How many more men working 7 hours a day would complete the same job in 12 days?

3mks

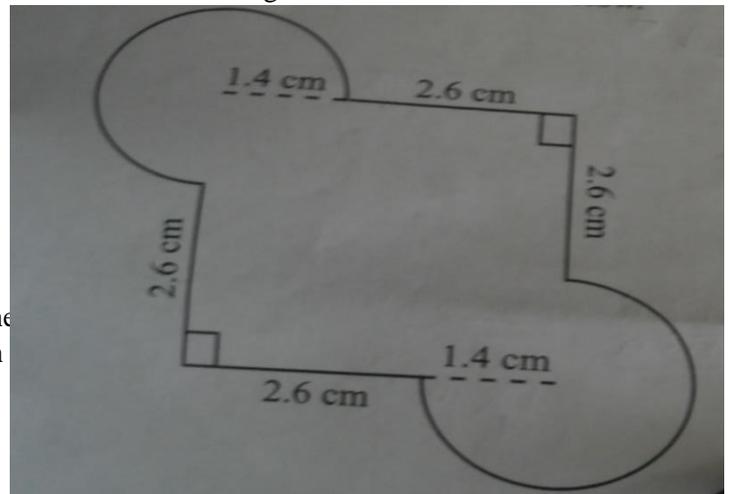
16. The following farmers had seven day old chicks for sale; Susan 14 072, Juma 24 324, Ali 88 060, Nduku 40 208, Oki 142 136, and Sally 3 246 992. If they were to be packed in boxes of 8 for easy transportation. Which farmers had exact number of boxes with no remainder?

3mks

17. Divide Kshs 2300 among A, B and C such that the ratio of A's share to B's share is 2:3 and B's share to C's is 5:7.

3mks

18. A design was made up of straight edges of length 2.6 cm and arcs of circles of radii 1.4 cm as shown in the figure below



a. What is the area of the design? 5mks

b. What is the perimeter of the design? 5mks

