



HILLSIDE PRIMARY SCHOOL
BEGINNING OF TERM THREE EXAMINATIONS

2023

INTEGRATED SCIENCE (SET SEVEN)

Time Allowed: 2 Hours 15 Minutes

Index No.

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Candidate's Name..... Stream.....

Candidate's Signature.....

EMIS No.....

District Name.....

Read the following instructions carefully

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Section A has 40 questions and Section B has 15 questions
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5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in boxes indicated: "**For Examiners' Use Only**" and those inside the paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO
1-10		
11-20		
21-30		
31-40		
41- 43		
44- 46		
47- 49		
50- 52		
53- 55		
TOTAL		

SECTION A (40 Marks)

1. Name one form of energy that enables primary seven pupils to get information on the assembly.

.....
.....

2. Mention one enzyme found in the stomach.

.....
.....

3. Identify one excretory waste product passed out through the lungs.

.....
.....

4. How are incisor teeth adapted to their function?

.....
.....

5. Why would one prefer rearing local breeds of cattle to exotic breeds?

.....
.....

6. State one advantage of breast feeding to a baby.

.....
.....

7. Why do frogs cover their eggs with a slimy jelly?

.....
.....

8. What happens to the volume of water when it freezes?

.....

9. Give one example of a disease spread through tick bites in cattle.

.....

10. Name any one disease that affects the muscular skeletal system.

.....

11. Give one example of an involuntary muscle.

.....

12. In the space below draw a diagram of a garden tool used to cut trees.

.....

.....

.....

.....

.....

13. Give one similarity between reptiles and birds in terms of reproduction.

.....

.....

14. Name one organism that reproduces by budding

.....

.....

15. Identify the wood fuel produced under limited supply of oxygen?

16. What type of leaf venation is common in monocotyledonous plants?

.....

17. Give the function of the kidney in the human body?

.....

.....

18. Where in mammals does fertilization take place?

.....

19. Name the non-metallic conductor used in a dry cell.

.....

.....

21. Which type of circulation involves the flow of blood from the heart to all body parts except lungs?

.....

.....

22. Name the class of birds with the foot shown below.



.....

23. Give one example of an animal fibre?

.....

24. What do we call the vertical arrangement of soil layers?

.....

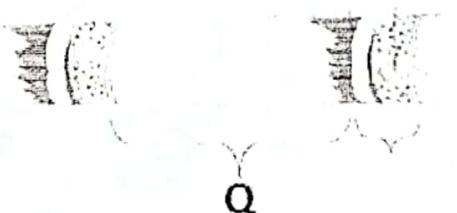
25. Apart from Toggenburg, name any other breed of goats reared for milk production.

.....

26. Mention any one natural family planning method?

.....

27. Name part Q of a sugar cane stem below.



.....

28. Give one way of reducing friction in moving parts of a machine?

.....

29. Mention the component of air used in fire extinguishers.

.....

30. State one similarity between a cockroach and a tick.

.....
.....

31. Give any one importance of brain to a human being?

.....
.....

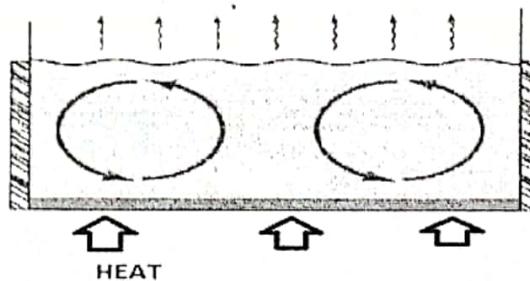
32. How many chambers does the heart of a mammal have?

.....
.....

33. Give one structural difference between a vein and an artery.

.....
.....

34. Below is a diagram of one of the methods of heat transfer



Name the method represented above.

.....

35. Give one method used in harvesting trees?

.....

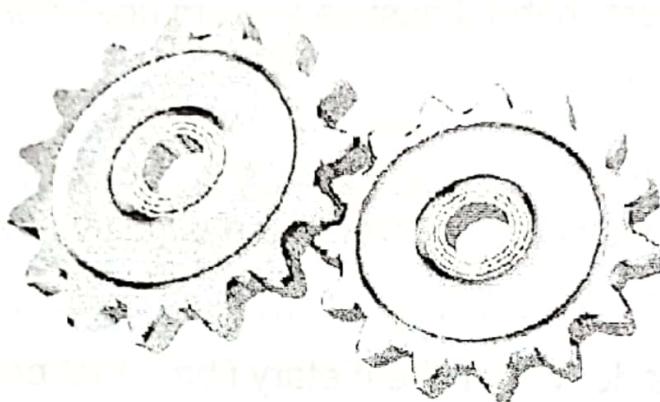
36. Mention one factor that affects the rate of transpiration.

.....

37. What is the recommended distance between a pit latrine and a water source?

.....

The diagram below shows a simple machine. Study it and answer questions 38 and 39.



38. Name the simple machine shown above.

.....

39. Use arrows to show the directional movement of the above machine.

40. Mention one way of controlling ecto parasites in cattle?

.....

SECTION B (60 Marks)

41. a) Give one importance of saliva in the process of digestion.

.....
.....

b) Where in the digestive system does absorption of food occur?

.....

c) Mention one disorder of the digestive system

.....

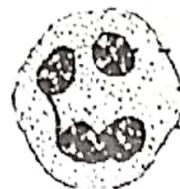
d) What do we call the dietary fibres that promote peristalsis and proper working of digestive system?

.....

42. The diagrams below are of blood components. Use them to answer the questions that follow



M



N

a) Identify the blood component marked by letters:

(i) **M**.....

(ii) **N**.....

(b) State the function of blood component N in the body.

.....
.....

(c) Mention one example of a disease that affects the circulatory system.

.....

43. (a) What are nutritional diseases?

.....
.....

(b) Mention two examples of nutritional deficiency disease

(i)

(ii)

(c) What is the best way of preventing such diseases?

.....
.....

44. (a) Give any two agents of soil erosion.

(i)

(ii)

(b) Name any one cause of soil erosion

.....
.....

(c) How can farmers control soil erosion on hilly areas?

.....
.....

- 45 The table below shows different tropisms and their stimuli fill in the missing answers

Tropisms	Stimuli
.....	sunlight
Geotropism
.....	water
Chemotropism

46. (a) What is meant by the term swarming?

.....
.....

(b) Name any two products we get from bees.

- i)
ii)

(c) Name the part on the abdomen of a queen bee that enables it to lay eggs

.....
.....

47. (a) How is sound produced?

.....
.....

b) Give one example of stringed musical instruments.

.....
.....

c) Mention one method of storing sound.

.....
.....

(d) State the difference between **pitch** and **volume** as used in sound.

.....
.....

48. (a) Identify two ways how animals depend on plants.

(i)

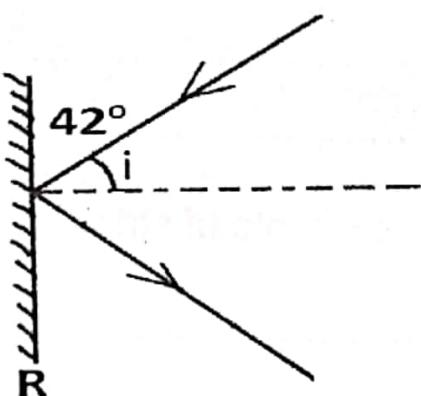
(ii)

(b) Mention two ways how plants benefit from animals.

(i)

(ii)

49. The diagram below shows reflection of light. Study and answer question



a) Identify surface marked R.

.....
.....

b) Calculate the angle incidence.

c) Give any one use of reflection to people.

50. What are poultry vices?

(b) Give any **two** examples of poultry vices.

(i).....

(ii).....

(c) Give one way of controlling poultry vices?

51. (a) Write **ORS** in full.

(b) Identify two solutes used to make **ORS**

- (i).....
(ii).....

c) Mention one sign of a dehydrated baby.

.....
.....

52. (a) In one sentence give the meaning of the following terms:

i) Sprain

.....
.....

ii) Fracture

.....
.....

(b) State any two reasons why we give first aid to casualties

- (i).....
(ii).....

53. a) Give any two disease vectors whose life cycle passes through water.

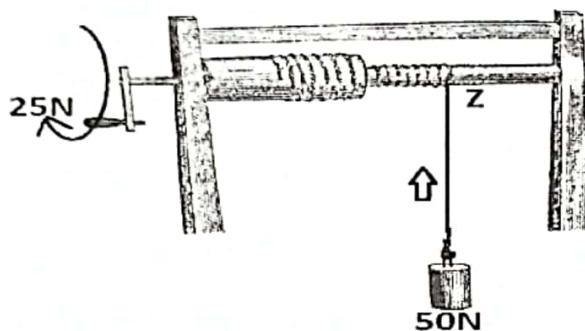
- (i)
(ii)

b). State any two diseases caused by poor sanitation in an area.

(i)

(ii).....

54. Below is a diagram of one of the examples of simple machines.



a) To which group of simple machines does the above machine belong?

.....
.....

b) Name the part of the machine labeled Z.

.....
(c) Use letter E to indicate the position of the effort on the machine.

.....
(d) Calculate the mechanical advantage of the above machine.

55. Match the items in list **A** to those in **B** correctly.

A

(i)Eyelids

(ii)Pupil

(iv)Retina

(v)Iris

B

Film

Diaphragm

Shutter

Aperture

(i)Eyelids.....

(ii)Pupil.....

(iii)Retina.....

(iv)Iris.....

GOOD LUCK



HILLSIDE PRIMARY SCHOOL

BEGINNING OF TERM THREE EXAMINATIONS

2023

ENGLISH (SET SEVEN)

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SECTION A: 50 MARKS

Sub-section I

(Questions 1 to 50 carry one mark each)

In each of the questions 1 to 5, fill in the blank space with a suitable word.

1. How manyof paraffin did you buy?
2. what a rare creatureewe is
3. The policejust reached the crime scene..
4. John likes swimming and soPeter.
5. Of the twins, Nkoko is(pretty)

In each of the questions 6 to 15, use the correct form of the word given in brackets to complete the sentence.

6. A lot of mourners attended theof the late Sebaana Kizito. (bury)
7. The carpenter is.....the planks now. (smooth)
8. The policeman shouted.....at the bus driver who refused to stop the bus. (angry)
9. Children need properfrom parents and teachers. (guide)
10. Of the three siblings, Kwezi is the (beauty)
11. The patientdown and slept in the shade. (lie)
12. Our head teacher's is so difficult that no one can attempt to forge it. (sign)
13. The chairman's to postpone the meeting was rejected by all the members. (propose)
14. What abouquet Dad offered me! (love)
15. Many people fear Joseph Kony because of his..... (cruel)

*In questions **16** and **17**, re-arrange the given words to form a correct sentence.*

16. rang while The bathing phone were you.

.....
.....

17. into thieves the break When the did shop?

.....
.....

*In questions **18** and **19**, use each of the given words in a sentence to show that you know the difference in their meaning.*

18. uncle

.....
.....

19. ankle

.....
.....

*In questions **20** and **21**, re-arrange the given words in alphabetical order.*

20. wiper, saddle, brakes, indicator

.....
.....

21. chief, chef, thief, scarf

.....
.....

*From numbers **22** to **24**, write each of the given abbreviations in full.*

22. Cert
23. vol.
24. CD

In questions 25 and 26, re-write the sentences giving the opposite form of the underlined word.

25. The lake was very rough in the morning.

.....
.....

26. The janitor was very helpful to us.

.....
.....

In questions 27 and 28, re-write the sentences giving one word for the underlined group of words.

27. I cannot take a seat with my wife's mother.

.....
.....

28. Orumuri Newspaper is published every day.

.....
.....

In questions 29 and 30, give the plural form of each of the given words.

29. leaf

30. mother-in-law

Sub-section II:

For questions 30 to 50, write the sentences as instructed in brackets.

31. The farmer was weak. He couldn't carry a full bag of maize.

(Re-write the sentence using:too.....to)

.....
.....

32. This is the orphan. I told you about him. (Join using:

(.....whom.....)

.....
.....

33. My father owns 100 cows. My uncle also owns 100 cows.

(Re-write the sentences as one beginning: Both.....)

.....
.....

34. Kato is richer than Kakuru. (Rewrite the sentence using:not as
.....)

.....
.....

35. As soon as the children crossed the road, the speeding car passed
behind them. (Re-write beginning: No sooner.....)

.....
.....

36. They are very tired. They can't continue running.

(Re-write the sentences using: because

.....
.....

37. By whom was this glass broken? (Begin: who

.....
.....

38. Keith is very beautiful boy. (Re-write the sentence beginning:
what)

.....
.....

39. All the candidates will pass the English Paper.
(Re-write the sentences beginning: None)
.....
.....
40. If you don't pay attention, you will miss the important information.
(Re-write the sentence using:or else.....)
.....
.....
41. They travelled a long distance on their tour to Kasese,?
(Re-write and supply a suitable question tag)
.....
.....
42. Mubiru doesn't drink beer. Biruka doesn't drink beer.
(Join the sentences using:and neither.....)
.....
.....
43. Bena did not go to America. He did not have a passport.
(Begin: If)
.....
.....
44. James likes growing soya beans more than grazing cows.
(Re-write the sentences using:would rather.....)
.....
.....
45. You should look after your health.
(Re-write the sentence beginning: One.....)
.....
.....

46. Their Principal is a Ghanaian.

(Re-write the sentence beginning: A Principal.....)

.....
.....

47. I intend to buy a phone during my vacation.

(Re-write the sentence beginning: My.....)

.....
.....

48. I am related to those three boys. (Re-write the sentence ending:

.....relatives.)

.....
.....

49. Jamson is very dull. He cannot join P.7. (Join the sentences using:

.....enough

.....
.....

50. All that glitters.....(Re-write and complete the proverb)

.....
.....

SECTION B

51. Read the passage below carefully and answer, in full sentences, the questions that follow.

Election of prefects is a yearly event in schools. Prefects play a big role. They help teachers to smoothly run the school.

In my school, Hillside Primary School, this election is held in second term, and recently, it was election week. The School Election Commission announced posts to be vied for. The notice was pinned on the school noticeboard. Interested pupils were encouraged to apply to the electoral body. Several application letters were carefully scrutinized by the electoral body and names of applicants found fit for the posts were listed and displayed on the noticeboard. This showed that they had been nominated or selected to contest for the respective posts.

Aspiring candidates designed posters to facilitate their campaigns. The campaigns got more interesting as various candidates promised to do various things once elected. Lito Bokie, one of the candidates vying for the post of Dining Prefect, promised to ask the school administration to include ice cream on the daily school menu. This particular promise made him very famous among the pupils. All throughout the campaigns, there was no case of bribery reported. The School Election Commission had strongly cautioned against bribery of any kind, and that any candidate who engaged in the vice would be discontinued from the election. They'd also warned against use of abusive language during the campaigns.

On polling day, pupils queued to cast their votes. They exercised their democratic right by voting candidates of their choice. Later in the day, vote counting took place and successful candidates were announced. As the victors celebrated their electoral victories, strong losers accepted defeat and congratulated their fellows on winning in the election. The victors were later sworn in at a colorful ceremony presided over by the area Member of Parliament. What a busy electoral season it was!

Questions:

1. What is the passage about?

.....
.....

2.Which role do prefects play in school?

.....
.....

3.Why did some candidates celebrate?

.....
.....

4.How were the electoral posts announced to the pupils?

.....
.....

5.What did Lito Bokie wish for on the school menu?

.....
.....

6.Which body announced the results of the election?

.....
.....

7.What did the electoral body warn contestants against?

.....
.....

8.Why did the losers congratulate their fellows?

.....
.....

9.Who presided over the swearing in ceremony?

.....
.....

10.Suggest a suitable title for the passage.

.....
.....

52. Study the card carefully and correctly answer the questions about it in full sentences.

The family of **Mr. & Mrs. Richard Baguma** of Mityana together with the family of

Mr. and Mrs. Bosco Tumwesigye of Kabaale District cordially invite the company of **Twesigye Audrey** of Mbarara to the wedding ceremony of their children **Kakwanzi Gertrude** and **Mugisha Cruz** due to place at Namiremebe Cathedral on 12th December, 2023 at 12:00 noon and thereafter to a reception at Serena Hotel in Kampala at 4:00 p.m.

Your presence will grace the function

RSVP

1. Mrs. Ngabo shana

Tel. 0712131983

2. Mr. Nabunwa Mark

Tel. 0753131331

Questions

1. Who has been invited to the function?

.....
.....

2. When will the function take place?

.....
.....

3. Who is going to be the bride?

.....
.....

4. Where will the reception take place.

.....
.....

5. In which church will the wedding take place?

.....
.....

6. From which district does Mr. Bosco Tumwesigye come?

.....
.....

7. who are the parents of Mugisha Cruz?

.....
.....

8. At what time will the reception take place?

.....
.....

9. Write in full

a) RSVP.....

b) P.m.

53. Read the poem below and answer the questions in full sentences.

TRAFFIC JAM IN TOWN.

In town,
Vehicles travel from up country
They get into town
Others struggle
To get out of town
Some move within
All in town

The roads get crowded
With both vehicles and pedestrians
Both struggling for space
Space to help them move freely
Moving freely in town
Is as hard as walking a journey of thorns
Using the bare foot

At the junctions
The traffic lights and the traffic police
Playing a big role
The lights change colours
To give clear instructions
Red you stop, orange you get ready, green you go
The officers blow the whistles
They arrest and handcuff the law breakers
Let's all observe the Highway Code

Okello Mark

Questions

(a) Where is the traffic jam?

.....
.....

(b) What do other vehicles struggle to do?

.....
.....

(c) Write one word to mean: people walking on the road.

.....
.....

(d) How many stanzas does the above poem have?

.....
.....

(e) What do both pedestrians and vehicles struggle for?

.....
.....

(f) Apart from the traffic police, what else plays a big role at the junctions?

.....
.....

(g) What is the title of the above poem?

.....
.....

(h) Who arrests the law breakers?

.....
.....

(i) How many lines are in the second stanza?

.....
.....

(j) Why do traffic lights change colours?

.....
.....

54. The sentences below are not in the correct order. Rewrite them in the correct order to form a composition about **Road Accidents**,

- (a) When drivers speed, they have little control over their vehicles.
 - (b) IF we avoid these human errors and many others, the number of accidents will be reduced,
 - (c) Driving without a permit shows that the driver is not qualified.
 - (d) In Uganda, the number of road accidents has increased.
 - (e) The second type of human error is speeding,
 - (f) This increase is largely because of human errors.
 - (g) The third type of human error is driving without a permit.
 - (h) The first human error is driving after taking alcohol.
 - (i) And many lives will be saved.

(G) Alcohol confuses the sight of most drivers

55. Imagine you are the library prefect of your school. Write a letter to the librarian of your school, Mr. Akampa Felix, **requesting for permission** to allow your class use the library for personal reading. Mention **when** you plan to use the library and **promise** to behave well while there.



HILLSIDE PRIMARY SCHOOL
BEGINNING OF TERM THREE EXAMINATIONS-2023
SET SEVEN
SOCIAL STUDIES WITH RELIGIOUS EDUCATION

Time Allowed: 2 Hours 15 Minutes

Index No.

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SECTION A (40 MARKS)

1. How is a map reader able to estimate actual distance between places on a map?

.....

2. Which physical feature covers the largest part of Uganda?

.....

3. Give one importance of natural vegetation to man?

.....

4. Which aspect of climate favours most human activities?

.....

5. Give one way of conserving swamp vegetation?

.....

6. State one importance culture.

.....

7. Why did the Portuguese build Fort Jesus?

.....

8. Mention one process involved in making Uganda a nation.

.....

9. Give one way physical health can be promoted at school.

.....

10. Which arm of government implements laws?

.....

11. Mention any one seaport which handles Uganda's goods
besides Port Mombasa

.....

12. Give one way school going children can use the road safely.

.....

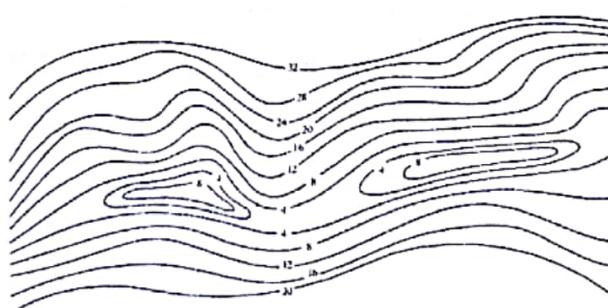
13. State one cause of famine in Africa.

.....

14. Give one example of a renewable resource.

.....

15. Name the map symbol drawn below.



.....

16. Why were most explorers afraid of crossing Kenya to Uganda?

.....

17. Give one way of harvesting rain water for domestic use.
-

Study the picture of the national symbol of Uganda and use it to answer questions 18 and 19.



18. Name the national symbol drawn in the picture.
-

19. Why was the bird drawn above chosen as national symbol mentioned in question 18 above?
-

20. State one reason why most game parks are located in savannah vegetation.
-

21. Suggest a reason why subsistence farming is commonly practiced in Uganda.
-

22. State the main role of NEMA in Uganda.
-

23. Name one example of a kingdom which was formed by the Bantu in Uganda.

.....

24. Why were the Portuguese interested in finding the sea route to India?

.....

25. How did formal education help Africans in the struggle for their independence?

.....

26. Give one basic right of children.

.....

27. State the ruling political party of Uganda.

.....

28. In which way does high population density promote economic development of a country?

.....

29. State one problem faced in accessing social services in Uganda today.

.....

30. Which major physical feature separates the continent of Africa from Asia?
-

31. Give one way of promoting fishing industry in East Africa.
-

32. State one state that was formed as a result of the Great Trek in South Africa.
-

33. State one factor which promotes peace and security at school.
-

34. Identify one bad practice committed during elections in Uganda.
-

35. Cite out one effect of heavy rainfall in mountainous areas.
-

For questions 36 to 39 answer either Christian or Islam but not both.

36. Either: Define the term **incarnation**.
-
-

Or: Define the term **incarnation**.

.....

.....

37. **Either:** State one event before Jesus's death.

.....

Or: State one problem faced by Prophet Muhammad during Hijra.

.....

38. **Either:** Give one reason for worshipping God.

.....

Or: Give one reason for worshipping Allah.

.....

39. **Either:** State one benefit of observing God's commandments in life of a Christian.

.....

Or: State one benefit of observing pillars of Islam in life of a Muslim.

.....

40. **For both:** State one similarity between Christianity and Islam.

.....

SECTION B (60 marks)

41. (a) Name the newest member state of East African Community.

.....

(b) State any one benefit of regional groupings to member states.

.....

(c) Point out one problem facing East African Community as a regional grouping.

(d) How can the problem mentioned in (c) above be solved?

42. (a) How was L. Victoria formed?

(b) Give one economic benefit of Lake Victoria to people of East Africa.

- i)
- ii)

(c) State one problem facing proper utilization of lakes and rivers in Africa.

43. (a) Name the cradle land of the Bantu.

(b) State any two examples of Bantu tribes in Kenya.

- i)
- ii)

(c) Point out any one effect of Bantu migration into East Africa.

44. a) What is global warming?

.....
.....

(b) Give any two causes of global warming.

- (i)
(ii)

(c) State one way global warming is dangerous to the Environment.

.....

45. (a) Give the meaning of the term national constitution.

.....
.....

(b) How did the introduction of 1967 Republican Constitution affect kingdoms in Uganda?

.....
.....

(c) Mention any two importance of a national constitution.

- i)
ii)

46. a) Mention any two examples of social service centres.

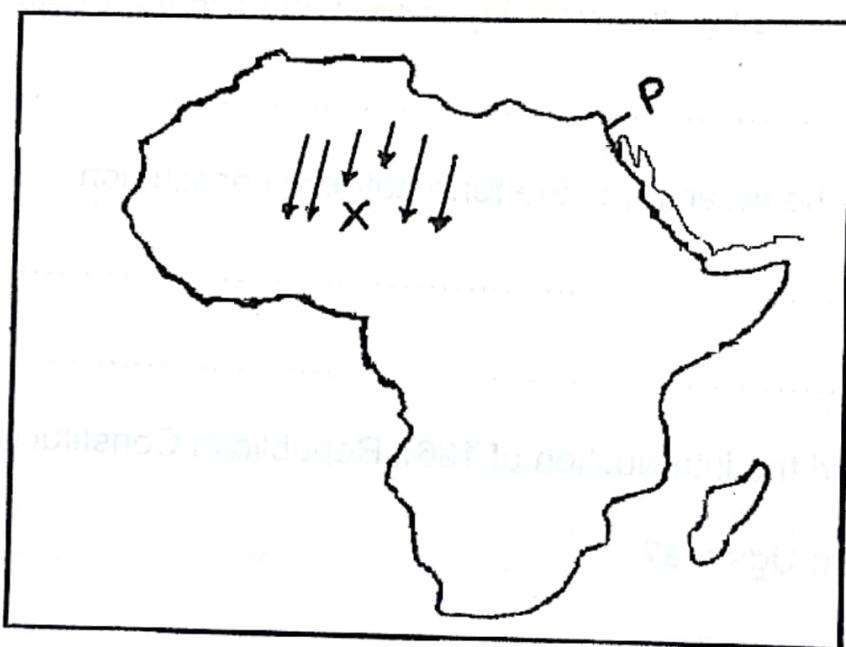
- (i)
(ii)

(b) Give any two ways of caring for service centres mentioned above.

(i)

(ii)

47. Study the sketch map of Africa below and use it to answer the questions that follow.



a) Name the water channel marked P.

.....

b) Name the prevailing winds marked X?

c) Apart from prevailing winds, give any two factors that influence the climate of Africa.

i)

ii)

This is a copy of certain sections of my original document.

48. (a) What is tourism?

b) State any two importance of tourism in Uganda.

(i).....

(ii).....

c) Give one example of a tourist attraction in Uganda.

49. (a) In which country was MAU MAU uprising staged?

b) Mention any one cause of MAU MAU uprising

c) Give any two results of MAU MAU uprising.

i)

ii)

50. (a) Name the governor who exiled Kabaka Mutesa II

b) Who signed the 1954 Namirembe Agreement on behalf of:

(i) Buganda.....

(ii) Britain.....

- (c) State any one negative way Africans reacted to colonial rule in Africa.

For questions 51 to 55 answer either Christianity or Islamic but not both.

51. Either: a) Give one example of good service Christians can get from their neighbours.

- b) State any two ways Jesus served others.

- i)
ii)

- c) In which one way can Christians show Jesus' true example of service?

- Or: a) Give one example of good service a true Muslim can provide to a neighbour.

- b) State any two reasons why Islam encourages good neighbourliness.

- i)
ii)

- c) Point out one consequence of bad neighbourliness.

52. Either: (a) What is the holy book for Christians?

(b) Give any one type of books in the Bible.

.....

c) State any two importance of the Bible in life of a Christian.

i)

ii)

Or: a) What is the holy book for Muslims?

.....

(b) Give any one type of books in the Quran.

.....

(c) State any two importance of the Quran in life of a Muslim.

i)

ii)

53. Either: (a) What is work?

.....

.....

(b) Give any two reasons why Christians work.

(i)

(ii)

c) Mention any one problem Christians face while at work.

.....

Or: a) What is work?

.....

.....

(b) Give any two reasons why Muslims work.

(i)

(ii)

c) Mention any one problem Muslims face while at work.

.....

54. Either: "And I will ask the father, and he will give you another helper to be with you forever...." (John14:16-19)

a) Name the helper whom the father will send.

.....

b) Give one symbol that represents the helper mentioned in (a) above.

.....

c) State any two fruits Christians get from the helper mentioned in (a) above.

i)

ii)

Or: a) What term is used to refer to the belief in the six articles of faith in Islam?

.....

b) Give any two attributes of Allah.

i)

ii)

c) Which pillar of Islam is performed to demonstrate profession of faith in Islam?

.....

55. For both: a) Give one cause of suffering to man.

.....

b) State any two forms of suffering caused by the HIV-AIDS to man.

i)

ii)

c) Point out the best way married couples prevent HIV/AIDS.

.....

END



HILLSIDE PRIMARY SCHOOL-NAALYA

BEGINNING OF TERM THREE EXAMINATIONS

2023

MATHEMATICS (Set Seven)

Time Allowed: 2 Hours 30 Minutes

Index No.

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Candidate's Name.....

Candidate's Signature.....

EMIS No..... Stream

District

Read the following instructions carefully:

1. The paper has two sections: A and B. Section A has 20 questions and section B has 12 questions. The paper has 12 pages altogether.
2. All working for both sections A and B must be shown in the spaces provided
3. All working must be done using a blue or black ball-point pen ink or fountain pen. Any work done in pencils other than graphs and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary alterations/changes of work may lead to loss of marks.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in boxes indicated: "For Examiners' Use Only."

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A: (40 marks)

1. Subtract: $64 - 23$

2. Write 19,342 in words.

.....
.....

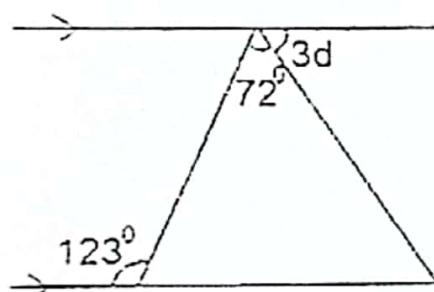
3. Write 637 in standard form

4. If today is Wednesday, what day of the week it be 40 days from now?

5. Increase 2400 kg by 10%

6. Akidi is 4 times as old as Odong the product of their ages is 64 years,
how old is Akidi?

7. Find the value of d in the figure below;



8. How much can one pay to buy 16 books at sh. 4800 for every two pairs?

9. Expand 45.02 using powers of ten

10. Using a pair of compasses, a ruler and a sharp pencil, construct an angle of 30° .

11. Work out the mean of $3n$, 7, $n + 1$ and 4.

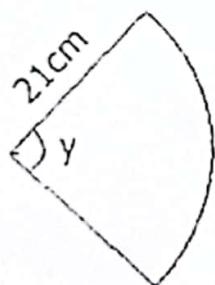
12. 4 men can slash a compound in 9 days. How many men are needed to do the same piece of work in 2 days?

13. Given that set $K = \{a, b, c\}$, how many subsets has set K ?

14. Subtract $a + 2$ from $3a - 4$

15. Express $0.121212\dots$ as a common fraction in its lowest form

16. Below is a sector whose perimeter is 388.5cm. Find the value y



17. What is the 9th triangular number?

18. By selling an item at sh. 12,000, a trader made a profit of $33\frac{1}{3}\%$. At what price did he buy the item?

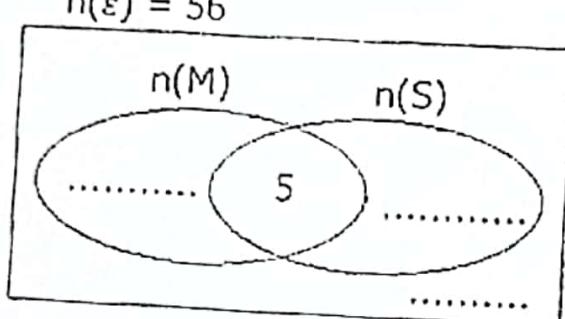
19. Workout the complement of $(60^\circ + 2m)$

20. Express $\frac{3}{5}$ as a decimal fraction

SECTION B: (60 marks)

21. In a P.7 class of 56 pupils, 20 like science (S), p like maths (M) only which is also twice the number of pupils who like neither science nor maths.

- a) Complete the Venn diagram below (3 marks)



- b) Calculate the value of p (2 marks)

- 22.a) Find the number whose scientific notation is 3.8×10^2 (2 marks)

b) Solve: $3^k \times 3 = 81$

(3 marks)

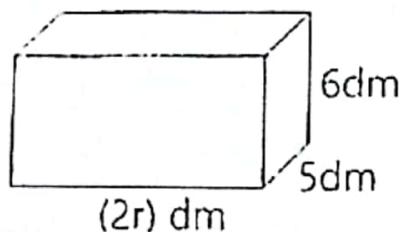
23. a) Simplify: $\frac{0.45 \times 0.03}{0.03 \times 0.5}$

(3 marks)

b) Work out: $\frac{3}{4} + \frac{2}{5}$

(2 marks)

24. The sum of all the edges on the figure below is 76dm.

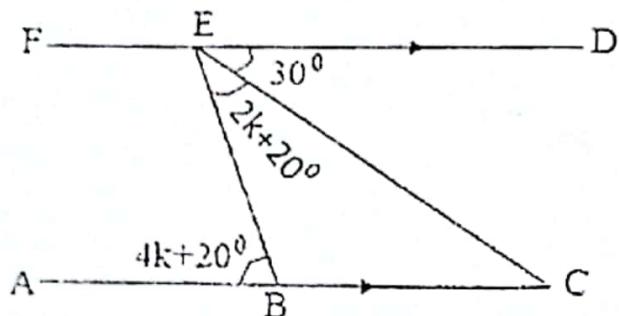


a) Find the value of r. (3 marks)

b) Calculate its volume (2 marks)

25. a) What angle is $\frac{1}{4}$ of its supplement? (2marks)

- b) In the figure below line FD is parallel to line AC. Use it to find the value of k.



26. a) Work out:

$$\begin{array}{r} 2 \ 3 \ 2_{\text{five}} \\ - \ 3 \ 4_{\text{five}} \\ \hline \end{array}$$

(2 marks)

b) Given that; $301_k = 144_{\text{five}}$. Find the value of k

(3 marks)

27.a) Solve for m: $\frac{1}{2}(4m - 2) = m + 2$ (2 marks)

b) Musa is 20 years older than Sarah. In 8years' time, Musa will be thrice as old as Sarah. How old is Musa now? (3 marks)

28. The sum of 3 consecutive even numbers is 42. If the largest number is h.

a) Find the value of h. (3 marks)

b) Work out their range. (2 marks)

29. Complete the shopping table below

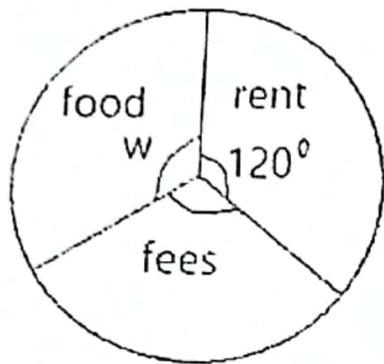
(5marks)

Item	Quantity	Unit cost	Amount
Books	5	Sh. 2,000	Sh.
Pens	Sh. 700	Sh. 6,300
Pencils	Half dozen	Sh. 4,500 @doz	Sh.
Reams	2	Sh.	Sh. 50,000
Total expenditure			Sh.

30. A motorist left town P travelling at a speed of 90km/h for 2 hours to town Q. If he returned to town P at a speed of 60km/h.

- Find the distance between towns P and Q. (2 marks)
- Workout the average speed for the whole journey. (3 marks)

32. The pie chart below shows how a family spends its income of sh. 240,000. Study it carefully and answer the questions that follow



- a) If they spend sh. 60,000 on fees per month, find the value of w
(3 marks)
- b) How much less does he spend on rent than on food per month?
(2 marks)

END