HILLSIDE PRIMARY SCHOOL

BEGINNING OF TERM THREE EXAMINATIONS

2024

MATHEMATICS (SET FOUR)

*Time Allowed: **2** Hours **30** Minutes*

Index No. | | | | | | | | | |

Candidate's Name.....

Candidate's Signature.....

Stream.....

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
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** working must be done using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked
4. No calculators are allowed in the examination room.
5. Unnecessary changes in work may lead to loss of marks. 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- 5		
6- 10		
11- 15		
16- 20		
21- 22		
23- 24		
25- 26		
27- 28		
29- 30		
31- 32		
TOTAL		

SECTION A: 40 MARKS

Answer **all** the questions in this section

Questions **1** to **20** carry two marks each

1. Multiply: 1 5 x 4

2. Write 749.95 in words.

   .....

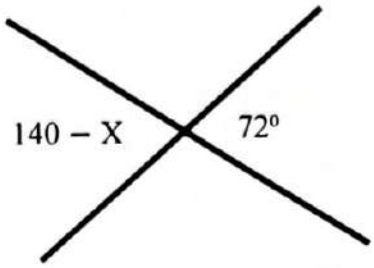
   .....

3. Solve for d; 4 – d = 8

4. Given that FU E= {1,2,3,4,5,6,7,8} and E = {2,3,5,7,8}
   Find members of set F if F and E are disjoint sets.

5. 4 men take 9 days to paint a building. How many men are needed to do the same work in only 6 days?

6. Calculate the value of y in the diagram below.



7. Change 11101_{two} to decimal base.

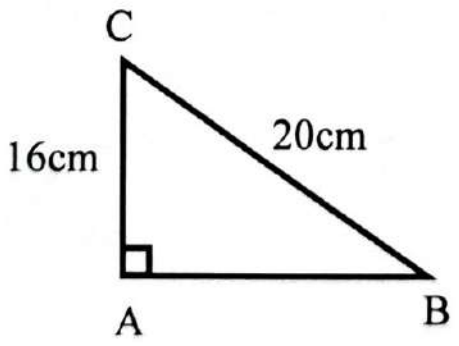
8. Divide $5.4 \div 0.09$

9. Calculate the area of a parallelogram whose base is 16dm and height is 8dm.

10. After selling a phone at sh. 360,000 a trader made a loss of 10%. Find the cost price of the phone.

11. Simplify: $4e^4 - 7e^2 + 5e^2$

12. Work out the total distance round the triangular garden below.



13. A baby slept at 10:42pm. Express its sleeping time in the 24 hour clock system.

14. With help of a pencil, a ruler and a pair of compasses only construct an angle of 240^0

15. A poultry farmer packed 7290 eggs on trays each carrying 30 eggs. How many trays were collected?

16. List all prime numbers between 80 and 100.

17. The cost of 6kg of beans is Sh.42,000. How many kilograms of beans can Peter buy with Sh.63,000?

18. Chemutai covered a distance of 90km in only one hour. Express his speed in metres per second.

19. Work out the value of h in $2h - 2 = 1$ (finite5)

20. The digits 4, 0, 7 are used to form three digit numerals by using each digit once, find the sum of the largest and smallest numerals formed.

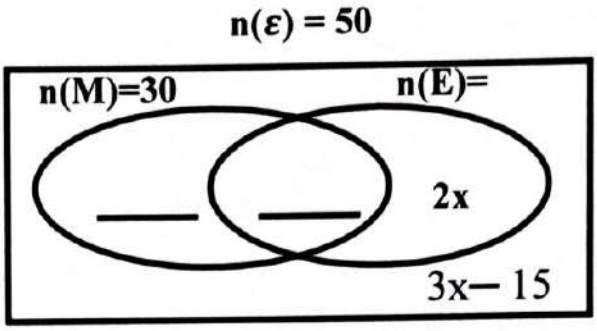
SECTION: B (60 MARKS)

Answer **all** *questions in this section.*

Marks for each part of the question are indicated in the brackets

21. In a class of 50 pupils, 30 like mathematics(M), 20 like Mathematics only, 2x like English only while (3x−15) pupils like neither of the two subjects.

(a) Show the above information on the Venn diagram below. (02 marks)



b) How many pupils like English? (03 marks)

22. The electricity power metre reading at the beginning of the month was 2968432 units and 2969482 at the end of the month.

(a) How many units were used during that month? (02 marks)

(b) If each unit is charged at sh.1500 and the first 50 units are free of charge. Calculate how much money was charged if 30% of the total charge is levied as service fee. (03 marks)

23. a) The interior angle of a regular polygon is 90^0 more than its exterior angle.

a) Find the number of sides the polygon has. (03 marks)

b) Calculate the interior angle sum of the polygon. (02 marks)

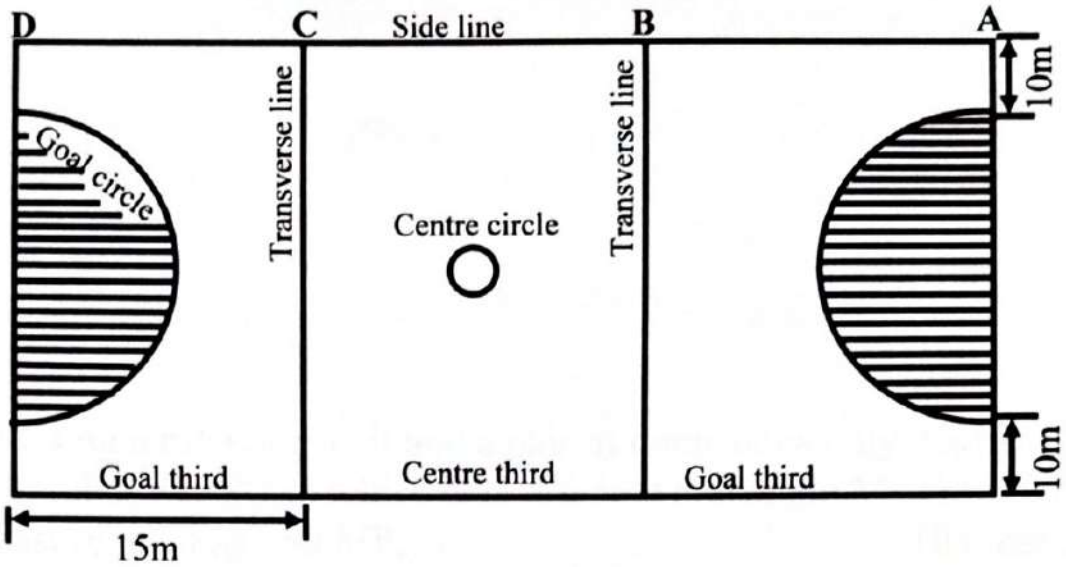
24. Wasswa went to the market and bought the following items.
3 litres of milk at Sh. 2500 per litre.
250g of salt at Sh. 2000 per kg.
18 oranges at Sh. 1500 for every 6 oranges.

a) Calculate his total expenditure. (04 marks)

b) If he paid Sh. 10,000 for all items, Calculate his percentage discount (01 mark)

25. The figure below is of a Netball Pitch where Namutebi trains from.

Study it and answer the questions that follow. (Using $\pi = \frac{22}{7}$)



a) If the area covered by the two shaded goal semi-circles is $154m^2$, calculate the width of the pitch. (02 marks)

b) During her training, Namutebi runs at a speed of 45m/hr. for 2 hours from part A to C. Whenever she reaches C, she reduces her speed by 15m/hr. to part D. Find her average speed for the whole training session. (03 marks)

26. a) Using a ruler, a pencil and a pair of compasses only. Construct a rhombus MNPQ in which MN = 6.5cm and angle MNO = 120^0 measure the diagonal MP. (04 marks)

c) Measure diagonal MP. (01 mark)

27. a) Work out $550_{six} \div 33_{four}$(answer in quinary base) (03 marks)

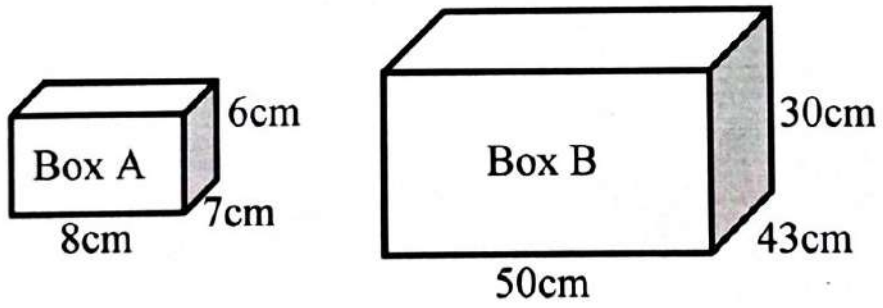
b)Given that $34_p = 10110_{two}$, find the value of p. (02 marks)

28.The sum of three consecutive even numbers is 96.
If the biggest number is K find the numbers. (05 marks)

29. Two girls Malaika and Goldie were putting tiles in a classroom, and one boy Arnold was removing the tiles from the same classroom. If it would require Malaika 6 hours, Goldie 8 hours and Arnold 4 hours to do their respective tasks together and starting at the same time.

a) How long did it take to fill the class with tiles? (04 marks)

30. a) How many boxes (A) can be packed into box (B)? (03marks)



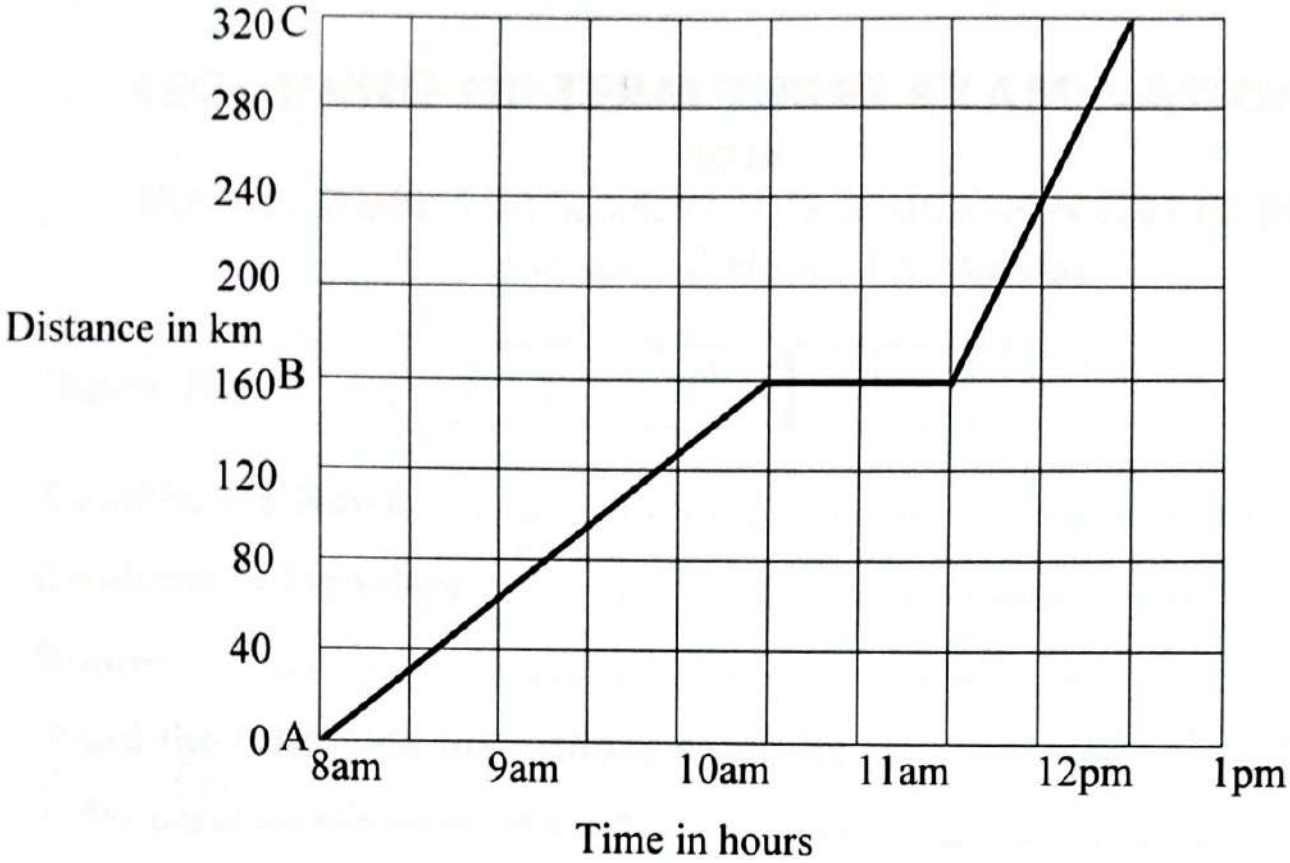
b)calculate the volume of space left unoccupied. (03 marks)

31. a) Solve the equation $\frac{3}{5}m + 6 = 2 + m$ (03 marks)

b) Solve the inequality and write the solution set. $3-2d < 17$.

(02marks)

32. The travel graph below shows how a bus travelled town from town A via town B to town C



a) At what time did the bus arrive at town B? (01mark)

b) How far is town C from town B (01mark)

c) Express the bus average speed for the whole journey in m/sec. (03marks)

END

HILLSIDE PRIMARY SCHOOL

BEGINNING OF TERM THREE EXAMINATIONS

2024

SOCIAL STUDIES WITH RELIGIOUS EDUCATION (SET FOUR)

Time Allowed: 2 Hours 15 Minutes

Index No. | | | | | | | | | |

Candidate's Name.....

Candidate's Signature.....

Stream .....

Read the following instructions carefully

1. The paper has **two** sections: **A** and **B.**
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain pen.
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5. Any handwriting that cannot easily be read may lead to loss of marks.
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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

Questions 1 to 40 carry one mark each

1. Name the element of a good map that explains the meaning of map symbols.

   .....

2. Mention the major tourist attraction at Nyero Stone Age site.

   .....

3. How does the government ensure proper use of revenue in a country?

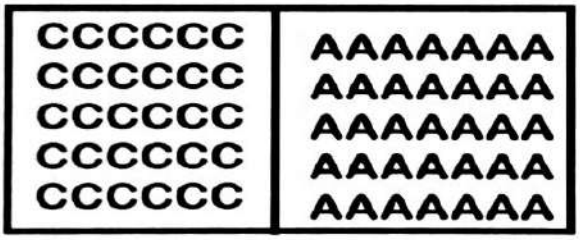
   .....

   .....

4. Write any one characteristic of Savanna vegetation.

   .....

The diagram below shows **Jomo`s** farm, use it to the questions 5 and 6.



Key
CCCC-crops
AAAA-animals

5. Name the system of farming shown in the diagram above.

   .....

6. Write any one problem that **Jomo** may face on his farm.

   .....

   .....

7. Name one river in Africa that ends with an estuary.

   .....

8. Why did colonialists introduce cash crop growing in East Africa?

.....

.....

9. Give any one reason why water transport may be difficult on some lakes in Uganda.

.....

.....

10. Write any one way police reduces crimes in an area.

.....

.....

11. Why is crafts making developed in areas with swamps?

.....

.....

12. Name the railway line that connects Zambia to port Dar-es-salaam

.....

13. Apart from using political parties, write one other way people in East Africa demanded for their independence

.....

.....

14. Give any one cause of the great trek.

.....

.....

15. What does the drum stand for on the Uganda national coat of arms?

.....

.....

16. What do Ugandans celebrate every 1st may?

.....

17. Which important discovery of early man promoted iron smelting?

.....

18. Name the domestic animal commonly kept for wool production in the velds of South Africa.

.....

19. Why is the government of Uganda encouraging proper management of wastes from industries?

.....

.....

20. How do deciduous trees survive harsh sunny weather?

.....

.....

21. Give any one cause of dense population in industrial areas of Uganda.

.....

.....

22. Which major factor attracted white settlers to Kenya Highlands?

.....

.....

23. How does rural electrification promote good climate?

.....

.....

24. Mention any one social service centre in your community.

.....

25. Write any one way class rules are important in a class.

.....

.....

26. Which regional grouping unites countries in West Africa?

.....

27. How is crop farming made possible in dry areas of Africa

.....

.....

28. Mention the major mineral mined in the Niger Delta.

.....

29. Write any one way the Berlin conference affected Africa.

.....

.....

30. State any one way Judiciary promotes peace in Uganda.

.....

.....

31. What name is given to the physical feature that lies between two hills?

.....

32. How does the presence of economic activities affect population distribution?

.....

.....

33. State one way the government of Uganda has promoted literacy in Uganda.

.....

34. Mention one method of controlling soil erosion in hilly areas.

.....

35. What is the duty of a polling constable during elections?

.....

.....

For each of the questions **36** to **39**, answer **EITHER** the Christian **OR** Islamic questions but **not** both. **NO marks** will be awarded to a candidate who attempts both alternatives in **a particular number**.

36. Either:

Why is a Christian encouraged to forgive others?

.....

.....

Or:

Why is a Muslim encouraged to forgive others?

.....

.....

37. Either:

Write any one way Jesus Christ showed the Jews that he was the son of God?

.....

.....

Or:

Write any one way prophet Mohammad showed mecca that he was the prophet of Allah?

.....

.....

38. Either:

Name any one Christian relief organization in Uganda.

.....

.....

Or:

Name any one Islamic relief organization in Uganda.

.....

.....

39. Either:

Mention the mountain which is connected to the Ten Commandments in Christianity.

.....

.....

Or:

Mention the mountain which is connected to the Quran in Islam.

.....

.....

40. Either:

Who was the first apostle to be called by Jesus Christ?

.....

.....

Or:

Who was the first covert of Prophet Mohammad?

.....

.....

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

41. a) How are delicate weather instruments kept at a weather station?

.....

.....

b) How is weather forecasting important to the following people?

i) Travellers.....

ii) Farmers.....

c) Name any one physical feature that can influence the formation of rainfall in an area.

.....

.....

42. a) What was local trade in the pre-colonial period?

.....

.....

b) Name the main item of trade from West Africa that was needed in America for production of raw materials.

.....

.....

c) Write any two factors that can promote trade in a community?

i) .....

ii) .....

43. a) Why is tourism called a service industry?

.....

.....

b) State any two factors that promote tourism in a country.

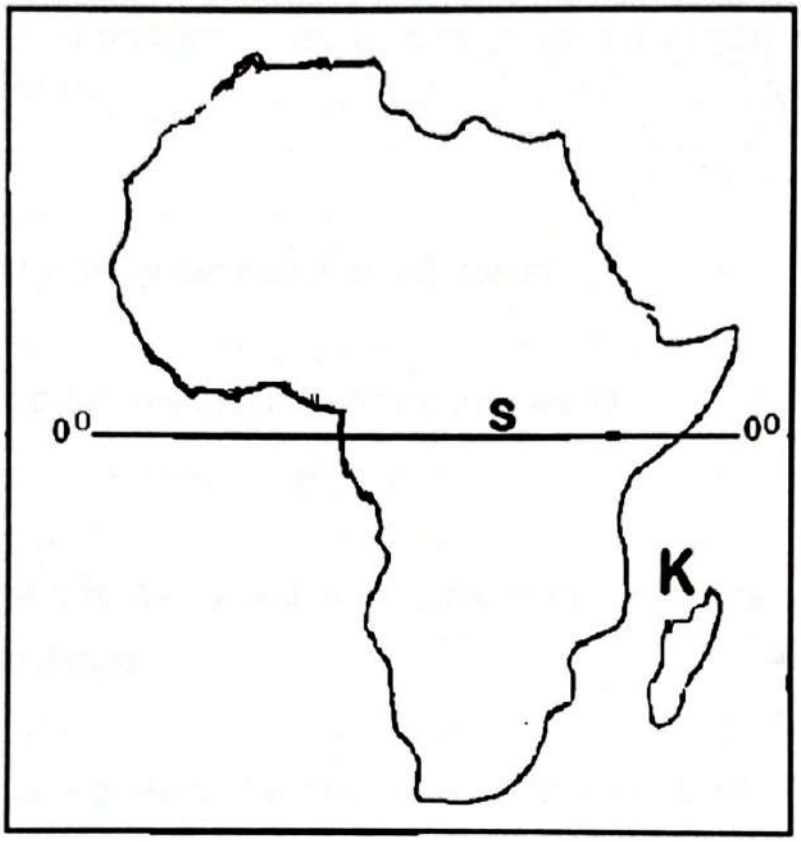
i) .....

ii) .....

c) Mention any one service provided by the tourism industry to tourists.

.....

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



a) Name the country marked **K**.

.....

b) Compare country **K** with Uganda in terms of their location.

.....

.....

c) Using letter **M,** show Atlantic Ocean on the map.

.....

d) Which line of latitude is marked **S** on the map?

.....

45. a) Name the political head of a district.

.....

b) Write any two ways districts get their revenue.

i) .....

ii) .....

c) Give any one problem faced by district leaders in getting revenue for the district.

.....

.....

46. a) Name any one prominent Pan Africanist.

.....

b) Write two problems that Pan Africanists faced.

i) .....

ii) .....

c) State any one way world wars encouraged Africans to demand for their independence.

.....

47. a) What title is given to the kings of Bunyoro Kingdom?

.....

b) Give any one reason why Buganda Kingdom became stronger when it started trading with the Arabs at the coast.

.....

.....

c) State any two importance of Kingdoms in Uganda Today.

i) .....

ii) .....

48. a) State any one way the following facilities are useful to a school;

i) school play ground.....

ii) school library.....

b) Give any two ways the school can be important to the community.

i) .....

ii) .....

49. a) State any one way farmers benefit from Agro based industries.

.....

b) Name the crops from which the following products are processed;

i) Perfumes.....

ii) Cosmetics.....

c) Write any one problem facing crop farmers in East Africa?

.....

50. a) Give any two reasons why dams are created on some rivers.

i) .....

ii) .....

b) Mention the human activities that can be done in the following stages of a river.

i) Middle stage.....

ii) Lower stage.....

For each of the questions **51** to **54**, answer **EITHER** Christian **OR** Islamic questions but **not** both. **NO mark** will be awarded to a candidate who attempts both alternatives in **a particular number**.

51. Either:

Give one reason why a God fearing child needs to pray in the following situations

a) Before going to school

.....

b) Before sleeping

.....

c) Before sitting an examination

.....

d) Before early food

.....

Or:

Give one reason why a God fearing child needs to pray in the following situations

a) Before going to school

.....

b) Before sleeping

.....

c) Before sitting an examination

.....

d) Before early food

.....

52. Either:

a) What is marriage according to Christianity?

.....

b) Give two reasons why people marry today.

i) .....

ii) .....

c) Mention any one factor considered when choosing a marriage partner.

.....

Or:

a) What is marriage according to Islam?

.....

b) Give two reasons why people marry today.

i).....

ii) .....

c) Mention any one factor considered when choosing a marriage partner.

.....

53. Either:

a) Why did God call Moses?

.....

b) What was the work of Moses before he was called by God?

.....

c) Give any two ways Moses showed his faith in God.

i) .....

ii) .....

Or:

a) Why did Allah call Prophet Musa?

.....

b) What was the work of prophet Musa before he was called by Allah?

.....

c) Give any two ways prophet Musa showed his faith in Allah.

i) .....

ii) .....

54. Either:

a) Give any two ways in which Christians worship God.

i).....

ii) .....

b) State any two benefits of worshiping God.

i) .....

ii) .....

Or:

a) Give any two ways Moslems worship Allah.

i).....

ii) .....

b) State any two benefits of worshipping Allah.

i).....

ii) .....

55. Either:

a) Write any two ways a Christian parent can help the children to develop strong faith in God.

i) .....

ii).....

b) State any two benefits of strong faith to a Christian child.

i) .....

ii) .....

Or:

a) Write any two ways a Muslim parent can help the children to develop strong faith in Allah.

i) .....

ii) .....

b) State any two benefit of strong faith to a Muslim child.

i) .....

ii) .....

END

HILLSIDE PRIMARY SCHOOL

BEGINNING OF TERM THREE EXAMINATIONS

2024

ENGLISH (SET FOUR)

Time Allowed: 2 Hours 15 Minutes

Index No. | | | | | | | | | |

Candidate's Name.....

Candidate's Signature.....

Stream .....

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FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXRS' NO**
1-10		
11-20		
21-30		
31-40		
41-50		
51		
52		
53		
54		
55		
TOTAL		

SECTION A: 50 MARKS

Questions 1 to 50 carry one mark each

Sub-section I

*In each of the questions **1 to 8**, fill in the blank spaces with a suitable word or a group of words.*

1. Ojakuba Bulungi does not know.....a plane looks like.
2. .....ewe is a female sheep.
3. Mr. Mwijukye the .....sells attractive flowers.
4. Vehicles could not move because there was.....traffic on the road.
5. Not only is the carpenter hardworking.....rich.
6. The suspect was finally charged.....defilement in the High court.
7. Primary Seven pupils did the homework by.....
8. To.....should we address the issue of children's rights?

*In questions **9 to 15**, use the correct form of the word in the brackets to complete the sentence.*

9. The late king was buried in his.....home. (ancestor)
10. Nakato is the .....of the twins. (old)
11. P.6 pupils have.....invitation letters to their friends. (write)
12. All the team players.....matched to the stadium. (quick)
13. Had they..... their work in time they would not have been punished. (do)

14. Farmers ought not to show .....in their animals. (cruel)

15. There were very a lot of .....at the wedding reception.(waitress)

In questions **16** and **17**, arrange the given words in alphabetical order.

16. condolence , mourners, deceased , heir

.....

.....

17. rest, restaurant, resting, restaurateur

.....

.....

In questions **18 to 20**, rewrite the sentences giving a single word for the underlined group of words.

18. On our way to Malaba, we met a <u>vehicle that carries dead bodies.</u>

.....

.....

19. All the candidates enjoyed their <u>first meal of the day</u>.

.....

.....

20. The <u>process of voting</u> for prefects at our school is done in second term.

.....

.....

In questions **21 and 22**, use the given words in a sentence to show that you know the difference in their meaning.

21. peace

.....

.....

22. piece

.....

.....

In questions **23 to 25**, write the full forms of the following.

23. Rev.....

24. Who'd.....

25. UWEC.....

In questions **26 to 28**, rewrite the sentence giving the opposite of the underlined words

26. Joshua Cheptegei <u>succeeded</u> in getting a gold medal.

.....

.....

27. My grandmother lived a <u>responsible</u> life.

.....

.....

28. The lake was very <u>calm</u> at the time we were at the beach.

.....

.....

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

29. a table-cloth.....

30. vertex.....

Subsection II

In questions **31 to 50**, rewrite the sentences as instructed in the brackets.

31. I am not a dog. I cannot eat these bones.

(Join as one sentence beginning: If.....)

.....

.....

32. The investor borrowed some money from the government.

(Re-write the sentence using: .....lent.....)

.....

.....

33. Who has broken my CD?

(Re-write the sentence beginning: By.....?)

.....

.....

34. Jinja S.S has bought a bus. The bus has sixty seats.

(Join as one sentence using: .....a sixty-seater.....)

.....

.....

35. Okot has made a very right decision.

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

.....

.....

36. It is a long way from Serere to Pakwach.

(Re-write the sentence using.....far.....)

.....

.....

37. The police officer told us, "This driver caused the accident recklessly."

(Re-write the sentence using: .....said that.....)

.....

.....

38. Harry does not have a thesaurus. Harry does not have a dictionary.

(Join as one sentence using: .....and neither.....)

.....

.....

39. It is ten years now since we last met.

(Re-write the sentence beginning: We haven't.....)

.....

.....

40. The porridge was very hot. They could not eat it.

(Join as one sentence using.....too .....to.....)

.....

.....

41. I met a business man. I was going to the mosque.

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

.....

.....

42. Turn off the volume of the radio. I want to receive my call.

(Re-write the sentence using.....so that.....)

.....

.....

43. Laura hopes to excel in P.L.E

(Re-write the sentence using.....looks forward....)

.....

.....

44. That envelope consists of letters from my relatives.

(Re-write the sentence using: .....comprises.....)

.....

.....

45. When Musa tested positive for COVID19, he was admitted to Mengo Hospital. (Re-write the sentence beginning: Immediately.....)

.....

.....

46. Pollution and over grazing are a threat to the environment.

(Re-write the sentence using: .....as well as.....)

.....

.....

47. The crowed three times. Peter denied Jesus.

(Rewrite as one sentence beginning: By the time.....)

.....

.....

48. Mariamungu rears cattle. He also rears poultry.

(Join as one sentence beginning: Besides.....)

.....

.....

49. Lugose bought a stool. The chair is nice. It is made of wooden. It is huge.

(Join as one sentence without using that, which or and)

.....

.....

50. Where can I find a television station the stranger asked

(Punctuate this sentence correctly)

.....

.....

SECTION B: 50 MARKS

Questions 51 to 55 carry 10 marks each

51. The dialogue below took place Dorah and a police officer. What the police officer said has been given. Write what you think Dorah responded in full sentences.

Police officer: Good morning; young girl.

Dorah:.....

.....

Police officer: What is your name?

Dorah:.....

.....

Police Officer: Angoli Dorah! Why are you crying?

Dorah:.....

.....

Police Officer: Where were going when you lost your way?

Dorah:.....

.....

Police Officer: Why were you going to Nsambya this morning?

Dorah:.....

.....

Police Officer: Visiting your friend Dinah won't be a problem. Don't you have any of your elder siblings who could accompany you?

Dorah:.....

.....

Police officer: Being the only child in family also has its advantages. Are you able to cross the road alone?

Dorah:.....

Police officer: If you are not able, let me take you to the zebra crossing?

Dorah:.....

.....

Police officer: That is a good question. A zebra crossing a place where pedestrians cross the road safely. Let's go and I show you where it is.

Dorah:.....

.....

Police officer: You are welcome, Dorah. There it is. You can now cross with ease and have a safe journey.

Dorah:.....

52. **A)** Read the invitation card below carefully and answer the questions that follow in full sentences.

GRADUATION CEREMONY

Mr and Mrs Mbazira of Kalori Lyantonde with great pleasure invite the company of

Ms. Namata Jesca

to their graduation party of their daughter Namugyenyi Martina which will take place at their home in Kalori on 30th September 2022 beginning at midday.

You presence will grace the occasion

R.S.V.P

Mbazira Moses 0782394929

a) Who is being invited to the party?

.....

.....

b) When will the ceremony take place?

.....

.....

c) Where will the party take place?

.....

.....

d) What is the relationship between Namata Jesca and Mr. and Mrs. Mbazira?

.....

e) Write R.S.V.P in full.....

52. B) Read the notice below carefully and answer the questions in full sentences.

The office of District Veterinary Officer, Omoro District hereby informs all farmers in Omoto zone that veterinary doctors will conduct a vaccination exercise in the areas as shown below.

DAY	TIME	ANIMAL	DISEASE
Mon. 16/05/2022	8:00a.m-12noon	Cattle	Foot and mouth
Tue. 17/05/2022	8:00a.m-10:00a.m	Dogs	Rabies
Wed. 18/05/2022	8:00a.m-3:00p.m	Pigs	Swine fever
Fri. 20/05/2022	11:00a.m-1:00p.m	Rabbits	Coccidiosis
Please keep time			

a) Who is being informed?

.....

.....

b) How many diseases will be vaccinated during this exercise?

.....

.....

c) From which office is this notice?

.....

.....

d) At what time will the exercise end on Monday?

.....

e) Why do you think they are carrying out vaccination in this zone?

.....

.....

53. Read the poem below carefully and then answer the questions that follow in full sentences.

Blessed, I am the mechanic
That four ***motorists*** found me at the garage recently
With their vehicles in dangerous mechanical condition
I need of repair.

The first vehicle was critically damaged in an accident
While the second had a faulty engine
That needed ***thorough*** check up
The other two vehicles had broken windscreens
That needed to be replaced with new ones.

This all I did with ease
And I was promptly paid at the end
The money I used
To buy not only food for my family
But also other home ***necessities***
Hence going back home happily.

Samson .K

a) What is the poem about?

.....

.....

b) How many vehicles were brought to the mechanic?

.....

.....

c) Why were the vehicles taken to the garage?

.....

.....

d) What happened to the second vehicle?

.....

.....

e) In which condition was the first vehicle?

.....

.....

f) According to the poem, how did the mechanic do this work?

.....

.....

g) How many stanzas does this poem have?

.....

.....

h) Why did the mechanic go back home happily?

.....

.....

i) Give a word or group of words to mean the same as the underlined words in the poem.

i) motorists.....

thorough.....

54. The sentences below are in a wrong order rewrite them in a correct order to make a good composition about **elections** in Uganda.

a) The elections are categorized in three groups.
b) They include Presidential, Parliamentary and Local Council elections.
c) This is a very simple question to answer.
d) After one has fulfilled all the requirements, one is free to stand and be nominated for any post of one's choice.
e) One of them is that such a candidate must be a Ugandan citizen, a registered voter and with "A" Level qualification.
f) However, there are some required qualifications for each of the above categories.
g) Why is Uganda considered a democratic country?
h) One of the reasons is that it holds elections after a period of five years.
i) After nomination, candidates start campaigns.
j) After campaigns, elections are held and the winner assumes office after swearing-in.

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55. Write a composition between 150-200 words about **the wedding you attended recently**. In your composition, include the following; when the wedding took place, where it took place and the people you went with and other people who attended, the couple that wedded, where the reception was held and at least any of the two things that you enjoyed.

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END

HILLSIDE PRIMARY SCHOOL

BEGINNING OF TERM THREE EXAMINATIONS

2024

INTEGRATED SCIENCE (SET FOUR)

Time Allowed: 2 Hours 15 Minutes

Index No. | | | | | | | | | |

Candidate's Name.....

Candidate's Signature.....

Stream.....

Read the following instructions carefully

1. The paper has **two** sections: **A** and **B.** Section A has 40 questions and Section B has 15 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked
4. Unnecessary changes in work may lead to loss of marks.
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

Questions 1 to 40 carry one mark each

1. Name one form of energy that results from friction.

   .....

2. Mention one enzyme that acts on food in the mouth.

   .....

3. Renewable resources are components of the environment that can be replaced by natural process when used, how are plants and animals replaced in the environment?

   .....

   .....

4. How are gills adapted to their function in fish?

   .....

   .....

5. Why would one prefer using a metallic mug to a plastic one when taking tea?

   .....

   .....

6. State one advantage of natural incubation over artificial incubation.

   .....

   .....

7. State the importance of fleshy leaves in an onion.

   .....

   .....

8. What happens to the density of an object when its volume reduces?

   .....

   .....

9. Why are people discouraged from keeping domestic animals inside the house at night?

.....

.....

10. Name the water borne-disease that is characterized by blood stained diarrhoea in man.

.....

.....

11. Give one example of an involuntary action in the body.

.....

.....

12. Identify the property of magnetism enables a sailor to locate places.

.....

.....

13. **In the space below draw the eggs of a frog.**

14. How do algae reproduce?

.....

.....

15. Why is wood covered with soil in process of producing charcoal?

.....

.....

21. Why are we encouraged to eat foods rich in vitamin A?

.....

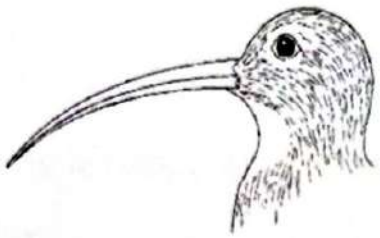
.....

22. How are plants different from fungi in terms of feeding?

.....

.....

23. **Name the class of birds with such a beak shown below.**



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24. How can the government protect endangered species of animals?

.....

.....

25. Why is claysoil considered the best for pottery?

.....

.....

26. Mention the main product obtained from Dorset sheep.

.....

.....

27. Give one cause of deformity of bones in human beings.

.....

.....

28. Mention one factor that can lead to seed dormancy.

.....

.....

29. How are aeroplanes protected from effects of friction in air?

.....

.....

30. Name the organ that enables cetaceans to maintain constant body temperature.

.....

.....

31. State one similarity between an echidna and a duck.

.....

.....

32. How are red blood cells important in respiration?

.....

.....

33. Arrange the following processes according to their order of occurrence.
Ovulation, copulation, implantation, fertilization.

.....

.....

34. Besides the shape, give any other structural difference between a red blood cell and a white blood cell.

.....

.....

35. Which body organ enables us to detect changes in temperature?

.....

.....

36. How do trees help to conserve air?

.....

.....

37. Which component of soil is formed by decomposition of organic matter?

.....

.....

38. Why is it not advisable to cover the hole of a ventilated improved pit latrine?

.....

.....

39. Which gas is necessary for seed germination?

.....

.....

40. State the importance of ear tag applicator on a cattle farm.

.....

.....

SECTION B

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

.....

.....

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

.....

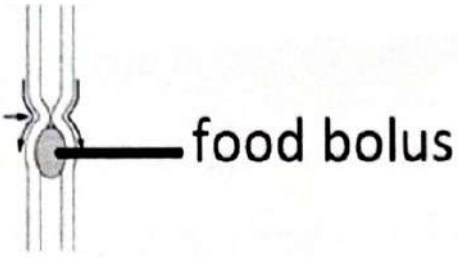
.....

c) Why does salivary amylase become in active in the stomach?

.....

.....

d) Identify the process illustrated below.



.....

42. a) How is a predator different from a scavenger?

.....

.....

b) Give one example of each of the following.

(i) Scavenger mammal.....

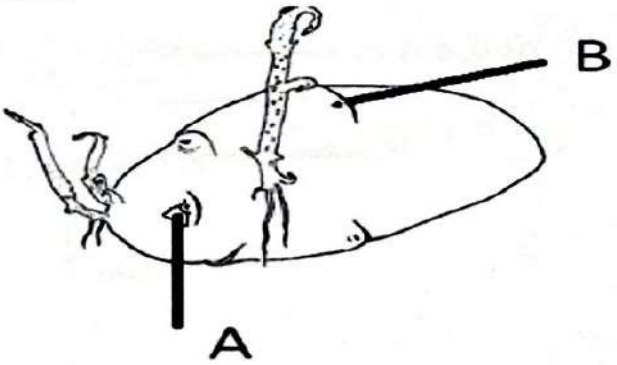
(ii) Scavenger bird.....

c) What is meant by the term "prey" in terms of feeding?

.....

.....

43. **The diagram below shows an underground stem. Use it to answer questions that follow.**



a) Name food value obtained from the above stem.

.....

b) To which group of underground stems does the above belong?

.....

c) How is part A useful?

.....

.....

d) Give one way of caring for the above plant.

.....

.....

44. (a)What term is used to refer to the destruction of vegetation?

.....

(b)Mention two ways how vegetation destroyed.

i).....

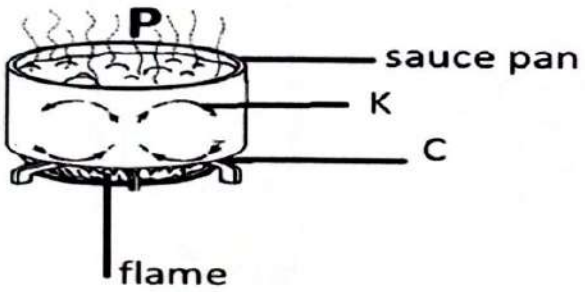
ii.....

(c)State the dangerous effect of destroying vegetation.

.....

.....

45. **Below is an experiment carried out by primary five pupils about boiling water.**



a) Which method of heat transfer takes place at K?

.....

.....

b) Mention the physical process represented by P.

.....

.....

c) In which state matter does heat travel by conduction?

.....

.....

d) What type of energy is possessed by boiling water?

.....

.....

46. Mention one example of each of the following crops.

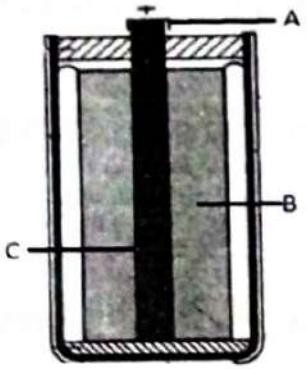
a) stem tuber.....

b) root tuber.....

c) vegetable fruit.....

d) leafy vegetable.....

47. **Study the electric cell below and answer questions that follow.**



a) Name part labeled B

.....

b) Why is a dry cell regarded as a primary cell?

.....

.....

(c) What form of energy is stored in a dry cell?

.....

.....

48. a) What is family planning?

.....

.....

b) Mention two permanent methods of a family planning.

i).....

ii).....

c) Identify one basic requirements of a pregnant.

.....

49. a) Apart from sweating, give any other way the skin regulates body temperature.

.....

.....

b) Mention one excretory product removed from the body by skin.

.....

c) How are sweat glands important in the human body?

.....

.....

d) Why does one urinate frequently on a cold weather day?

.....

.....

50. (a)Name the fuel obtained by fermenting animal excreta.

.....

.....

(b)Identify the bacteria involved in the production of the above fuel.

.....

.....

(c)How is the use of the above fuel environmentally friendly?

.....

.....

(d) What name is given to the materials used to produce the above fuel?

.....

.....

51. **Below is a list of human activities carried out by man in the environment.**

- Mining
- Mono-cropping
- Release of smoke from factories
- Planting trees.
- Draining swamps
- Treating industrial gases

(a)Which activity is likely to cause soil infertility?

.....

.....

(b)Identify the activity from the above list that causes global warming

.....

(c)From the above list, identify two conservation practices.

(i).....

(ii).....

52. .a) The term photosynthesis means the process by which plant make their own food what does the phrase"synthesis"mean.

.....

.....

b) Mention the two products of the above process.

i) .....

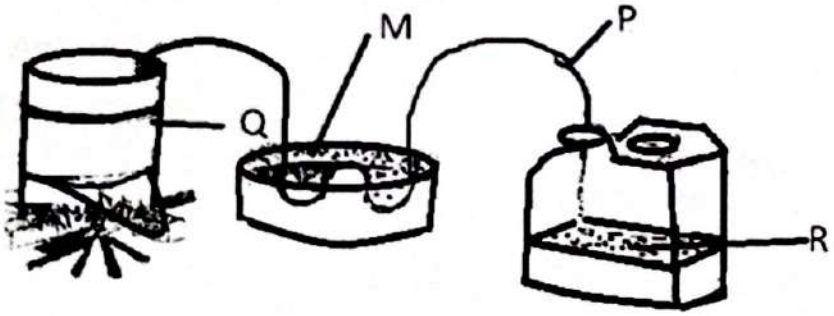
ii) .....

c) Why can't the above process occur at night?

.....

.....

53. **The diagram below shows one of the methods of cleaning water. Study it and answer questions 53.**



a) Name the method of cleaning water shown above.

.....

b) Identify the physical process taking place at M.

.....

C) Why is the part of **P** that is in water coiled?

.....

.....

c) Why is liquid R not recommended for drinking?

.....

.....

54. **Match the disease in List A to their signs and symptoms in list B**

List A	**List B**
(i) Foot and mouth disease	blood stained dung
(ii) Brucellosis	blisters on hooves and muzzle
(iii) Anthrax	placenta remains in the womb after birth
(iv) Red water	Reddish urine due to liver damage
	Sswelling of the udder and teats

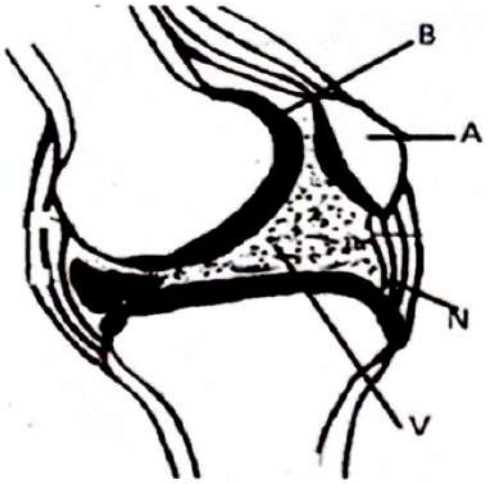
i) Foot and mouth diseas.....

(ii) Brucellosis.....

(iii) Anthrax.....

(iv) Red Water .....

55. **The diagram below shows a movable joint. Use it answer to answer questions**



(a) Give the function of parts labeled N and V

(i) N.....

(ii) V.....

(b) How is the fluid labeled B useful in a joint?

.....

(c) Mention one disease that affects muscles and bones.

.....

END

16. What happens on the surface of the bottle removed from a fridge and left in an open place?

.....

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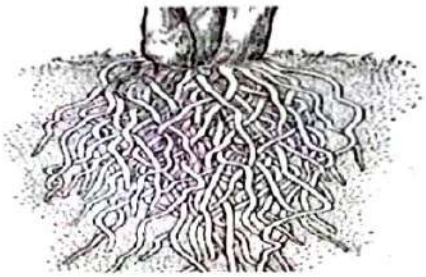
The diagram below shows a kind of root system. Use it to answer questions 17 and 18.



17. What kind of germination results into the above kind root system?

.....

.....

18. Mention one example of a plant with the above kind of root system.

.....

.....

19. Give one disadvantage of using a wet cell as a source of electricity.

.....

.....

20. Why are we discouraged from using cold water when administering first aid to a person with fever?

.....

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