



THE REPUBLIC OF UGANDA

# SIRONKO DISTRICT ACADEMIC BOARD

## PRIMARY LEAVING MOCK EXAMINATIONS, 2023

### INTEGRATED SCIENCE

**TIME ALLOWED 2 HOURS 15 MINUTES**

INDEX No.	RANDOM NO.						PERSONAL NO.		

CANDIDATE'S NAME:.....

CANDIDATE'S SIGNATURE: .....

SCHOOL:.....

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO**

Read the following instructions carefully

1. This 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 done using a blue or black ball-point pen or fountain pen.
4. Unnecessary changes of work may lead to loss of marks.
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Use only and those inside the question paper.

FOR EXAMINER'S USE ONLY		
QN NO.	MARKS	EXR'S NO.
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

## SECTION A.

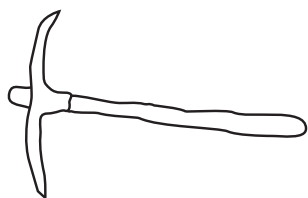
1. Give one importance of leaves to a plant.  
.....
2. In which state of matter does heat travel fastest?  
.....
3. How is blubber important to a sea mammal?  
.....
4. State one importance of a human skeleton to the human body.  
.....
5. Give the difference between a first aid box and a first aid kit.  
.....
6. How does a guitar produce sound?  
.....

**Use the diagram of a flush toilet below to answer questions 7 and 8.**



7. State one way of keeping the above toilet clean.  
.....
8. Identify one challenge faced by people who use the above toilet.  
.....
9. Why is litter put in a poultry house?  
.....
10. How is a magnet useful to a doctor?  
.....
11. Where in mammals, does fertilization take place?  
.....
12. Give one way in which molds are similar to ferns.  
.....
13. Why is rusting regarded as a chemical change?  
.....
14. How is oxygen useful during seed germination?  
.....
15. State the importance of bacteria in soil formation.  
.....
16. Name the special food that a queen bee is fed on.  
.....

17. How is the garden tool below useful to a farmer?



18. Why does a red shirt appear red?

19. Name any one sexually transmitted disease (STD) that is caused by a fungus.

20. Mention the weather instrument which is used to measure the speed of wind.

21. Why is shearing in sheep done in a dry season?

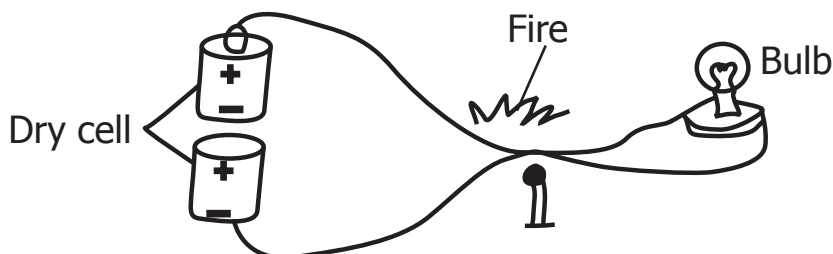
22. Write any one factor to consider when sorting clothes for washing.

23. Find the mass of a stone whose density is 5g/cc and the volume is 35cc.

24. State the function of the liver as an excretory organ.

25. Give the importance of hydrochloric acid in the stomach.

**The diagram below shows an experiment about a short circuit. Use it to answer the question that follow.**



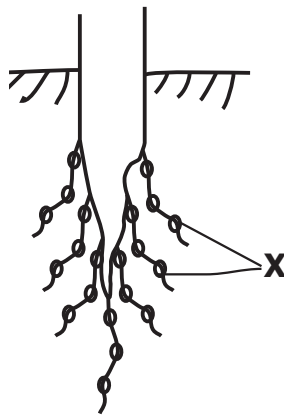
26. State the main cause of short circuit.

27. What is sublimation?

28. Name any one viral immunisable disease.

29. Identify any one physical process involved in the water cycle.  
.....
30. Give one method of controlling pests of root tuber crops in the garden.  
.....
31. In which state of matter is water at 0°C?  
.....
32. Name the layer of soil which supports plant growth.  
.....
33. How is panting useful in dogs?  
.....

**The diagram below shows part of a leguminous plant. Use it to answer questions 34 and 35.**



34. How are the structures named **X** useful to a leguminous plant?  
.....
35. Why is breast milk considered the best food for babies?  
.....  
.....
36. How do trees purify air in the environment?  
.....  
.....
37. Write down one tick borne disease in cattle.  
.....
38. What scientific name is given to a liquid obtained by distillation method?  
.....  
.....
39. Name one way food gets contaminated.  
.....
40. Identify one activity in PHC that promotes personal hygiene.  
.....

## SECTION B

41(a). What is food preservation?

.....

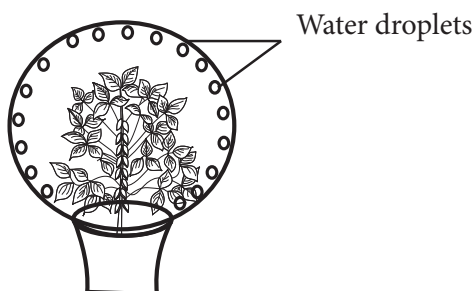
.....

(b). Give two methods of food preservation.

- i) .....
- ii) .....
- c) State one reason why people preserve food.

.....

42. **Study the diagram below and use it to answer questions that follow.**



(a). Identify the process shown in the diagram above.

.....

(b). State the importance of the process named in (a) above.

.....

c). Give two factors that affect the rate of the process in (a) above.

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

43. **Match the following types of teeth with their adaptations.**

### TYPE OF TEETH

### ADAPTATIONS

Molar

Chisel shaped

Incisor

Sharp and pointed

Canine

Ridges and cusps

Molar -----

Incisor -----

Canine -----

(b). How are canine teeth useful to people?

.....

44. (a) Why is a broom regarded as simple machine?

.....

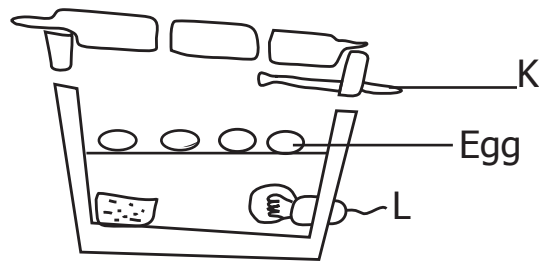
(b) To which class of levers does a broom belong?

.....

(c). State any two uses of pulleys in our daily lives.

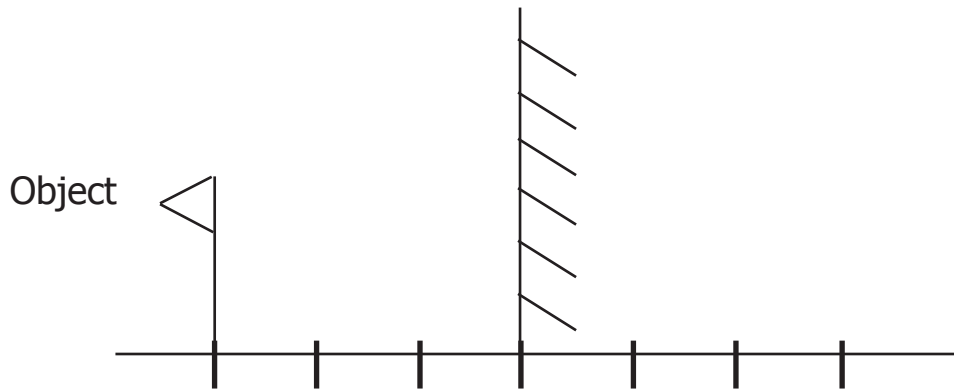
- i) .....
- ii) .....

45. **Use the diagram of an artificial incubator below to answer questions that follow**



- (a) Name the parts labeled;
- (i) K.....
- (ii) L .....
- (b) State the function of the part marked L.  
.....
- c) Give one advantage of an artificial incubator over a natural incubator.  
.....
46. (a) How is each of the following important to a foetus;
- (i) Placenta .....
- (ii) Umbilical cord?.....
- (b). State any two disorders of the reproductive system.
- i) .....
- ii) .....
47. **The table below shows a group of animals arranged in sub-groups A, B, C and D.**
- | A          | B          | C         | D       |
|------------|------------|-----------|---------|
| Dolphin    | Frog       | Chameleon | Kiwi    |
| Chimpanzee | Newt       | Lizard    | Emu     |
| Man        | Salamander | Cobra     | Ostrich |
- (a) To which group of animals do all the groups above belong?  
.....
- (b) Name the sub groups represented by letters A and D.
- (i) A.....
- (ii) D.....
- (c) Give one similarity between animals in A and D.  
.....

48.(a) **Study the diagram below and complete it to show how images are formed in a plane Mirror.**



(b) Give any two uses of plane mirrors in our daily lives.

i) .....

ii) .....

c) Why is the moon not regarded as a natural source of light.

.....

49. (a). Name any two components of soil besides humus.

i) .....

ii) .....

(b) State the importance of humus in the soil.

.....

c) Identify two crop growing practices that increase the amount of humus in the soil.

i) .....

ii) .....

50. (a) What is fever?.....

.....

(b) Give the first aid for fever.

.....

c) State two reasons why we give first aid.

i) .....

ii) .....

51.(a). Which type of change in the environment takes place in the following processes.;

(i) Moulting.....

(ii). Water turns into ice?

.....

(iii). Digestion?

.....

(b). Name the substance that exists in all the forms of matter.

.....

52. (a). What is the importance of covering wood with soil during the production of charcoal?

.....

(b). State two disadvantages of charcoal burning to the environment.

i) .....

ii) .....

(c ). Give one way of saving wood fuel.

.....

53.(a). Why is malaria considered to be a communicable disease?

.....

(b). Give the difference between a germ and a vector.

.....

.....

(c ). Name the germs that cause the following diseases.

(i). Trachoma.....

(ii). Measles.....

54 (a). What is steaming up?

.....

.....

(b). State any one reason for steaming up pregnant cows.

.....

( c). Apart from Jersey, name any other dairy cattle.

.....

(d) In the space below, draw a shape of a dairy cattle.



55 (a). What health problem is likely to arise from drinking dirty water?

.....

(b). Why is it not advisable to construct a pit latrine at a higher level than a water source?

.....

(c ). Write down any two faecal disease .

i) .....

ii) .....





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47-49		
50-52		
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TOTAL		

**SECTION A (40 MARKS).**

1. How is a compass direction useful to a pilot?  
.....
2. Give any one importance of plateaus to people.  
.....
3. Mention any one natural disaster caused by a lot of rainfall in an area.  
.....
4. State any one reason why there are many game parks in savanna grassland areas of East Africa.  
.....
5. Give any one advantage that pupils gain by participating in physical education activities in the school.  
.....
6. How do the civil leaders assume their offices?  
.....
7. State any one use of a library at school.  
.....
8. In the space provided below draw the symbol for a railway line.



9. Name the type of prevailing wind that helped the Arab traders to come to the East African coast.  
.....
10. In which one way is the parliament of Uganda similar to the East African Legislative assembly?  
.....
11. Which Arm of Government implements laws in Uganda?  
.....
12. Give any one way in which plantation farming promotes industrialization in Africa.  
.....
13. Explain any one reason why culture is important to the local communities of Uganda.  
.....

14. What is the value of clay soil during the art and craft lesson?  
.....
15. Give one reason to explain how slave trade negatively affected the economy of East Africa.  
.....
16. Give the similarity between the Masai of Kenya and the Fulani of northern Nigeria in terms of economic activities..  
.....
17. Name the type of transport suitable for transporting meat from Uganda to China.  
.....
18. Give any one way missionaries improved the health of the people of Uganda.  
.....
19. Identify one reason why Kampala is more populated than Kabong district.  
.....
20. Give one way in which the participation of the Africans in the World War II helped them to get independence.  
.....
21. Why is Colonel Patterson remembered in the construction of Kenya Uganda Railway?  
.....
22. Name the social service center which provides medical care to the people.  
.....
23. State any one feature which makes it easy to identify a school pupil.  
.....
24. How useful are oases to the people who live in desert areas in Africa.  
.....
25. What is the relationship between mangrove forests and the fishing industry in Uganda?  
.....
26. Mention any one reason why people are encouraged to carry out economic activities in Uganda.  
.....
27. Name the body responsible for issuing National Identity cards to citizens of Uganda.  
.....
28. State one danger caused by poor disposal of plastic and polythene bags in our environment.  
.....

29. How useful was the dog to the early man?  
.....
30. What title is given to the head of civil servants in the district?  
.....
31. How did the 1967 constitution affect kingdoms and chiefdoms in Uganda?  
.....
32. Identify any one challenge faced by the government of Uganda when carrying out population census.  
.....
33. How helpful was Captain Lugard Fredrick to the omukama Kasagama of Tooro?  
.....
34. Mention any one problem faced by wild life in Uganda.  
.....
35. It is 6.00PM in the Greenwich Mean Time. What time will it be in Uganda which is 45°E of the Greenwich?  
.....

**For each of the questions 36-40, answer either Christianity or Islam question BUT NOT BOTH. No marks will be awarded to a candidate who attempts both alternatives on the same number.**

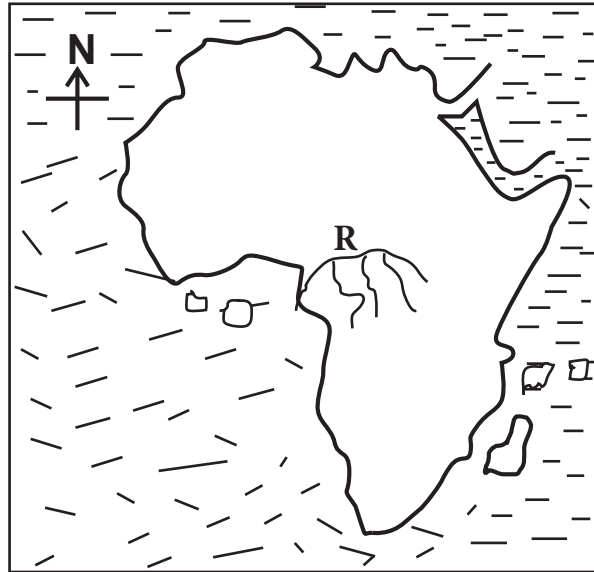
36. Either: Why is the Holy communion believed to be the most important sacrament in Christianity?  
.....  
OR: Why is Shahadah believed to the most important pillar in Islam?  
.....
37. Either: How was Lot related to Abraham?  
.....  
OR: How was Abu Talib related to Prophet Muhammad?  
.....
38. Either: Why is prayer important to Christians?  
.....  
OR: Why is prayer important to moslems?  
.....
39. Either: How is the practice of reconciliation important to a Christian in a day to day life in the community?  
.....  
OR: Either: How is the practice of reconciliation important to a Moslem in a day to day life in the community?  
.....

40. Either: Mention any one request made in the Lord's Prayer.  
.....  
OR: Identify any one thing that is regarded as impurity (Najasah) in Islamic faith.  
.....

### **SECTION B**

41. (a) Write down any one way a country can become a member of the East African Community.  
.....  
(b) Name the latest country to join the East African Community.  
.....  
c) Write down any two challenges the above country will solve as a result of joining the East African Community.  
.....
42. (a) What was triangular trade?  
.....  
(b) Identify any one item of trade during the triangular trade.  
.....  
c) State any one reason why slaves were taken to America?  
.....  
(d) What was the main slave trade island market in Africa?  
.....
43. (a). What title is given to the head of a republic?  
.....  
(b) Identify one advantage of having many political systems in a country like Uganda.  
.....  
c) Give any two ways democracy is practiced in schools.  
i) .....  
ii) .....
44. Paul planned to buy items worthy shs. 50,000 but he had only shs. 29,000.  
(a) Which type of budget did Paul make?  
.....  
(b) Give two disadvantages of the above budget.  
i) .....  
ii) .....  
(c) Why do many people in Uganda use the above budget?  
.....

45. **Study the sketch map below carefully and use it to answer questions that follow.**



- (a) Name the river marked **R**.  
.....
- (b) Give two reasons why the river named in (a) above carries the largest amount of water to the ocean.  
i) .....  
ii) .....
- c) Use letter **M** to locate the largest island country in Africa.
- 46(a) What are basic needs?  
.....  
.....
- (b) Write down any two examples of basics needs of man.  
i) .....  
ii) .....
- c) Give any one reason why some people fail to get basic needs.  
.....
47. **Complete the table below.**

NATIONALIST	POLITICAL PARTY	COUNTRY
I K musaazi	(i) -----	Uganda
(ii) -----	CPP	Ghana
Mwalimu Julius Nyerere	TANU	(iv)-----
Mzee Jomo Kenyatta.	(iii)-----	Kenya

- 48(a) State any two causes of climate change in Africa.  
i) .....  
ii) .....
- (b). Write any two ways of overcoming climate change in Africa.  
i) .....  
ii) .....

49(a) State any one method of mining minerals in Africa.

(b) Explain any two importance of mining industries to the development of African countries.

i) .....

ii) .....

c) Give any one problem facing the mining industry in Uganda.

50(a) Name any one tribe under the River-Lake Nilotes in Uganda.

(b) Give one reason why the River-Lake Nilotes never formed kingdoms.

c) State any two reasons why the River-Lake Nilotes migrated from their cradle land.

i) .....

ii) .....

**FOR EACH OF THE QUESTIONS 51-55, ANSWER EITHER CHRISTIANITY OR ISLAM BUT NOT BOTH.NO MARKS WILL BE AWARDED TO A CANDIDATE WHO ATTEMPTS BOTH ALTERNATIVES ON THE SAME NUMBER.**

51. Either. (a) Define the term authority.

b) Write down any two types of authority.

i) .....

ii) .....

c) Give any one way Jesus exercised his Authority while on earth.

OR: (a). Define the term authority.

(b) Write down any two types of authority.

i) .....

ii) .....

C) Give any one way Prophet Muhammad exercised his Authority while he was alive.

52. Either: (a) Write down one way in which Christians suffer today.

(b) Give any two effects of suffering.

i) .....

ii) .....

c) Give any one way in which Christians reduce the suffering of others.

OR: (a) Write down one way in which Moslems suffer today.

.....

(b) Give any two effects of suffering.

i) .....

ii) .....

c) Give any one way in which a Moslem can reduce the suffering of others.

.....

53. Either. (a) Give the meaning of the term Passover.

.....

(b) Write down the last punishment God gave the Egyptians before releasing the Isrealites.

.....

(c) Give any two ways in which the Isrealites benefited from the Exodus.

i) .....

ii) .....

OR: (a). Give the meaning of the word Hejira.

.....

.....

b) Which people did Prophet Mammed go to after leaving mecca in 622AD.

.....

c) Mention any two ways in which Islam benefited from Hejira.

i) .....

ii) .....

54. Either. (a). Why is each of the following places remembered in Christianity.

(i) Garden of Aden?.....

(ii) Mountain Sinai?.....

(iii) Golgotha?.....

(iv) Mountain Ararat?.....

OR: (a) Why is each of the following places remembered in Islam..

(i) Garden of Aden?.....

(ii) Mountain Noor?.....

(iii) Medina?.....

(iv) Mountain Ararat?.....

55. **FOR BOTH.**

(a) Outline any four similarities in belief between Christianity and Islamic faith.

i) .....

ii) .....

iii) .....

iv) .....

END





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3. Section A, Sub-section II has 20 short questions(20 marks)  
Section B has 5 questions ( 50 marks)
4. Answer ALL questions. All answers to both Section A and B must be written in the spaces provided.
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31 -40		
41-50		
51		
52		
53		
54		
55		
Total		

**SECTION A**  
**SUB SECTION I**

**In each of the equations 1-5, fill in the blank spaces with a suitable word or group of words**

1. It was not good for the visitor to jump\_\_\_\_\_the fence
2. You should go to class\_\_\_\_\_you be punished
3. \_\_\_\_\_a beautiful girl Lucky is!
4. He visited the \_\_\_\_\_because he wanted to buy furniture.
5. \_\_\_\_\_harder you work, the wealthier you become.

**In each of the question 6-15, use the correct form of the word given in bracket to complete the sentence.**

6. Benard was\_\_\_\_\_his sisters' hair very early in the morning. (dye)
7. Early\_\_\_\_\_spoils the future of young girls. (pregnant)
8. Of the twins, Wamono is the \_\_\_\_\_(proud)
9. Fatuma is going to celebrate her \_\_\_\_\_birthday next Friday. (nine)
10. Good children always seek\_\_\_\_\_before going out of the classroom. (permit)
11. Ssali will buy a .....table for his nephew (wood)
12. All the pupils will clean the latrine \_\_\_\_\_.(they)
13. He will be going to Kampala \_\_\_\_\_a week. (three)
14. Namataka \_\_\_\_\_her friend's cloth yesterday. (dirty)
15. I was given a wonderful \_\_\_\_\_by my friends.(receive)

**In question 16 and 17 write the full form of the given abbreviation.**

16. Tel.\_\_\_\_\_
17. DVD\_\_\_\_\_

**In questions 18 to 20 re-write the sentences giving a single word for the underlined group of words.**

18. The tyre has a small hole that releases out pressure.  
\_\_\_\_\_
19. The teacher told us to say a gain the word examination.  
\_\_\_\_\_
20. Kellah went to the place where meat is sold  
\_\_\_\_\_

**In questions 21 and 22, re-write the sentence giving the plural form of the underlined word.**

21. Naiga gave me the nicest furniture from her workshop.  
\_\_\_\_\_
22. Our sub county chief went for a workshop.  
\_\_\_\_\_

**In question 23 and 24, use each of the given words in the sentence to show that you know the difference in their meanings.**

23. Some \_\_\_\_\_

24. Sum \_\_\_\_\_

**In each of the questions 25 and 26, rearrange the given words to form a correct sentence.**

25. good is not to our It friends abuse.

\_\_\_\_\_

26. nice you have bought a What shirt !

\_\_\_\_\_

**For questions 27 and 28 rearrange the give words in alphabetical order.**

27. wise, sharp, clever, bright

\_\_\_\_\_

28. remind, retreat, rest, result

\_\_\_\_\_

**For questions 29 and 30, rewrite the sentence giving the opposites of the underlined words.**

29. Wandiba was found guilty by the courts of law.

\_\_\_\_\_

30. Enos drove carefully last Wednesday.

\_\_\_\_\_

### **SUB-SECTION II**

**In each of the questions 31 to 50, rewrite the sentence as instructed in brackets without changing the meanings..**

31. Jacob is very hardworking. Ronnie is very hardworking. (Rewrite as one sentence using -----as .....as.....)

\_\_\_\_\_

32. Chebet was carrying food on a plate. (rewrite the sentence beginning: Food.....)

\_\_\_\_\_

33. You should not disrespect your elders. (rewrite the sentence beginning: One.....)

\_\_\_\_\_

34. This is the girl. Her money got lost (rewrite as one sentence using ..... whose.....)

\_\_\_\_\_

35. "Who has poured the milk ?" asked Juma. (rewrite the sentence beginning: Juma wanted.....)

\_\_\_\_\_

36. The wind was very weak. It did not destroy the newly constructed house.  
(Rewrite as one sentence using .....enough.....)
- 
37. Her aunt wrote something, didn't she? (Rewrite ending .....did she?)
- 
38. All the pupils were present today. (rewrite the sentence beginning:  
Every pupil.....)
- 
39. That jacket belongs to Kasedde (rewrite the sentence beginning: Kasedde.....)
- 
40. Wakube bought a phone. It was made from China. It was new. It was blue.  
(rewrite as one sentence without using " which" , "that or "and")
- 
41. There was no teacher at school. ( rewrite the sentence using:.....hardly.....)
- 
42. Agnes likes reading novels more than watching movies (Rewrite the sentence  
using: .....prefer.....)
- 
43. If we get time we shall go and visit him (Rewrite the sentence beginning  
Had.....)
- 
44. Michael should be hardworking. He should also be smart. (rewrite as one  
sentence beginning: Not only)
- 
45. She was charged with stealing iron sheets. (rewrite the sentence using  
..... accused.....)
- 
46. He opened the website. He wanted to access the e-mail. (Join using .....in  
order.....)
- 
47. Desire can sweep the compound. She can also mop the house ( Rewrite as  
one sentence using: .....either .....)
- 
48. The girls were playing netball. The boys were playing football. (Join the  
sentences using: .....while .....)
- 
49. Eddie's uncle will see the doctor due to a prolonged illness he has had.  
(Rewrite: using .....because .....)
- 
50. You needn't have recorded my new song on your memory card.  
(Rewrite the sentence using:.....necessary .....)
-

## SECTION B

51. **Read the passage below carefully and then answer the questions that follow in full sentence.**

### A JOURNEY TO NABIKUYI

It was on Sunday when we left Kampala for Nabikuyi. The schools had closed due to COVID 19 outbreak. Our father, who owns a shop in Kampala, decided that we go to village. This was because even the shops had closed.

In the morning, we went to the bus park. We were to travel by bus. We had our pieces of luggage. Our father booked tickets at the gateway coach offices. He gave the fare to the conductor and the conductor gave him tickets. The conductor then put our luggage in the boot. Then we took our seats. While on the bus, people were talking about Corona virus and its dangers. We listened to the stories attentively though it made us fear that we would all die.

After nearly half an hour, the conductor told his driver that it was departure time. A man led a prayer, after which, we started the journey. The further we went, the faster the bus moved. When the passengers realized that the bus was travelling at a high speed, they told the driver to slow down.

Good enough, we were about to arrive in Iganga. In Iganga, we got on boda bodas to Nabikuyi. We reached our destination at 2 o'clock

### QUESTIONS

- a) What is the story about?  
\_\_\_\_\_
- b) On which day did the family travel?  
\_\_\_\_\_
- c) According to the story, why had schools closed?  
\_\_\_\_\_
- d) What was the father given after paying the fare?  
\_\_\_\_\_
- e) Where did the conductor put the luggage on the bus?  
\_\_\_\_\_
- f) What happened when the bus was travelling at a high speed?  
\_\_\_\_\_
- g) What do you think can happen when a bus travels at a high speed?  
\_\_\_\_\_
- h) At what time did the family reach their destination?  
\_\_\_\_\_
- i) Give another word or group of words to mean the same as the underlined words in the passage
  - i. arrived in.....
  - ii. started .....

52. **The sentences below are in a wrong order Re-arrange them correctly to make a good story.**

- a. This is because there are favorable climatic conditions.
- b. However, there are several steps taken before a crop is harvested.
- c. He then sells some of the harvests and keeps the rest for his family.
- d. During the dry season, the farmer harvests crops.
- e. First, a farmer prepares land for planting.
- f. Thirdly, he plants and cares for the crops.
- g. He does so by weeding, thinning, pruning and spraying to kill pests.
- h. And then selects the right seeds for planting.
- i. Secondly, he waits for the rainy season.
- j. Farming is a major economic activity in Bugisu Region.

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53. **The information below was pinned on the notice board of Buwasa Health Center IV. Read it carefully and answer the questions that follow in full sentence**

**MINISTRY OF HEALTH**  
**BUWASA HEALTH CENTER IV, SIRONKO**  
This is to inform our dear patients and those taking care of them that all our services are free of charge to all. You should not pay any money to any medical officer. This is against the law. Should any of the officers ask for money from you, please report to the causality police post.  
You can also call the public relations officer on 0300800320 or call the security Dept. on 0416775090  
MANAGEMENT  
27/6/2023

**Questions**

- a. Where can one get the information above?

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b. To whom was the information addressed?

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- c. Under which ministry do we get health centres?  
\_\_\_\_\_
- d. Why do you think many patients will go to Buwasa Health Centre IV?  
\_\_\_\_\_
- e. Where should medical officers who ask for money be reported?  
\_\_\_\_\_
- f. According to the notice, which health centre put up the above information?  
\_\_\_\_\_
- g. Where do you think one can find Buwasa Health Centre IV?  
\_\_\_\_\_
- h. When was the notice written?  
\_\_\_\_\_
- i. Write Dept. in full?  
\_\_\_\_\_
- j. Who wrote the above information  
\_\_\_\_\_

54. **Read the poem below carefully and then answer in full sentence the questions that follow**

Studying without holiday is tiresome!  
It makes pupils dull and fed up,  
Teaching without remedial classes,  
Makes weak pupils curse studies,

Holidays without a plan.  
Make pupils mess up their fun!  
Many join bad groups of thugs.  
Forcing them to become drug addicts

Holidays without travelling.  
Are not exciting at all.  
No new place visited.  
When the term begins, no news to tell friends.

Holidays that are planned  
Make pupils happy.  
They tour interesting and exciting places.  
They go far for concerts, camps and bashes as well.

**Questions**

- a. What is the poem about?  
\_\_\_\_\_
- b. What makes pupils dull?  
\_\_\_\_\_







THE REPUBLIC OF UGANDA

# SIRONKO DISTRICT ACADEMIC BOARD

## PRIMARY LEAVING MOCK EXAMINATIONS, 2023

### MATHEMATICS

**TIME ALLOWED 2 HOURS 30 MINUTES**

INDEX No.	RANDOM NO.						PERSONAL NO.		

CANDIDATE'S NAME:.....

CANDIDATE'S SIGNATURE: .....

SCHOOL:.....

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO**

Read the following instructions carefully

1. This paper has two sections A and B.
2. All the 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 or fountain pen. Diagrams should be drawn in pencil.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill any thing in the boxes indicated: "For Examiners"  
Use only and those inside the question paper.

FOR EXAMINER'S USE ONLY		
QN NO.	MARKS	EXR'S NO.
01-05		
06-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

## SECTION A ( 40 MARKS)

1. **Work out:**

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \\ \hline \end{array}$$

2. **Write in figures:** "forty one and nine tenth".

3. **Given that:**  
Set  $P = \{\text{composite numbers less than } 10\}$ . Find the number of elements in set **P**

4. **Solve:**  $2k - 9 = 11$ .

5. Four oranges cost shs. 8000.  
Find the cost of six similar oranges.

6. Find the next two number in the sequence given. 2,3,5,7,-----,-----

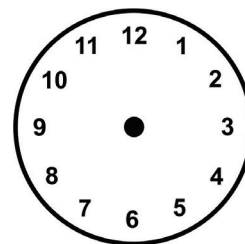
7. Convert 2.5 metres to centimetres.

8. How many lines of folding symmetry has the given figure below?



9. Today is Thursday, which day of the week will it be 20 days from now?

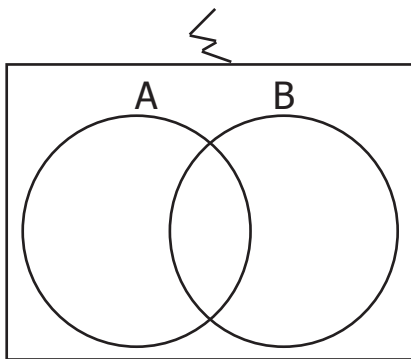
10. Show twenty five minutes past three P.M. on the clock face given.



11. Masaba scored the following marks in his end of term one examinations. 70,50,60,50 and 65. Find his median score.

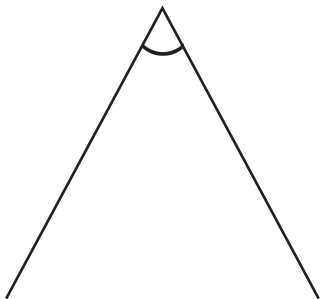
12. Alex sold a radio at shs. 70,000 making a loss of shs. 23,000. At how much did he buy the radio?

13. Shade  $(A \cap B)^1$  in the diagram below.

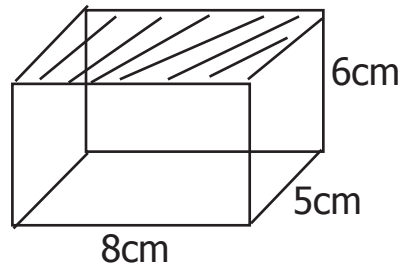


14. Expand 3508 using powers of 10.

15. Using a ruler, pencil and pair of compasses only, bisect the given angle.








16. The figure below is a cuboid. Find the area of the shaded part.



17. **Divide:** 606 by 3.

18. Given that  $m=2$ ,  $n=3$  and  $k=0$ . Find the value of  $kmn$ .

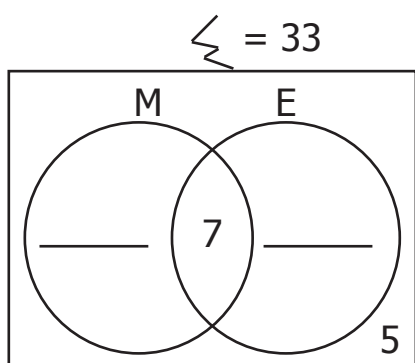
19. **Workout:**  $2.0 \div 0.5$ .

20. If  represents 24 balls, how many balls are represented by     ?

### SECTION B

21. In a class of 33 pupils who study mathematics (M) and English (E), P like Mathematics only, 7 like both Mathematics and English, 13 like English only and 5 like none of the two subjects.

- (a) Complete the Venn diagram (2marks)



- (b) If 15 pupils like mathematics, find the value of P. (2marks).

- (c) Find the chance that a pupil picked at random likes English but not mathematics. (1mark)

22. The mean of  $y$ , 2, 6 and  $(y+4)$  is 5. Find the value of  $y$ . (3mks)

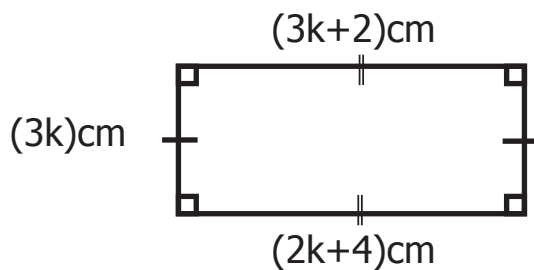
- (b) Find the range of the numbers. (1mark)

- 23(a) Simplify  $\frac{0.6 + 0.24}{0.2 \times 0.04}$  (3marks)

- (b) Write 0.4 as a common fraction in its simplest form. (2marks)

- 24(a) Find the product of the values of 8 and 1 in the numeral 28016. (3marks)

- 25(a) Find the value of **k** in the diagram given below. (3marks)



- (b) simplify:  $4m - (m - 3m)$  (2marks)

26. Using a pencil, a ruler and pair of compasses only,  
(a) Construct a parallelogram PQRS such that angle  $SPQ = 60^\circ$ , line  $PQ = 7\text{cm}$  and line  $PS = 4\text{cm}$ . (4marks)

- (b) Drop a perpendicular line from point S to meet PQ at X. (1mark)  
c) Measure line SX (1mark)

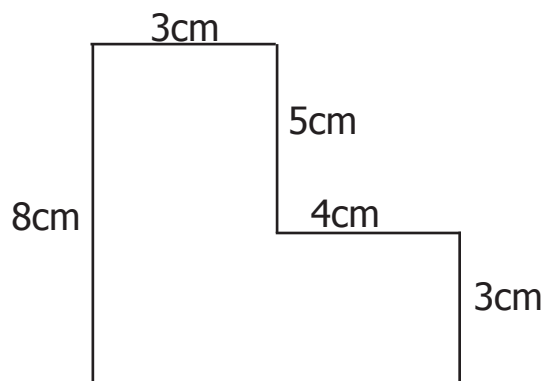
27. Study the exchange rate given below and use it to answer questions that follow.

Currency	Buying	Selling
1 US dollar	(\$) $3100$	$3200$
1 pound sterling (£)	$5000$	$5200$

- (a) If Musa has £42, how much is this in Uganda currency? (2markks)

- (b) Convert 185,600 Uganda shillings to United States dollars. (2maks)

28. Study the given figure below and the questions that follow.



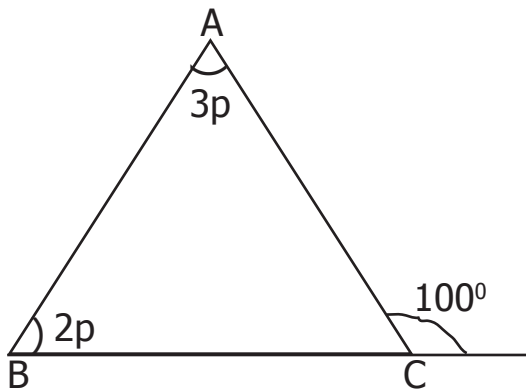
- (a) Find the distance around the figure? (3marks)

- (b) Calculate the area of the figure. (3marks).

29(a) Matembu took 120 minutes to cover a distance of 36km.  
Calculate his speed in km/h.  
(3marks)

(b) Convert 50m/s into km/h.  
(2marks)

30(a) Find the value of **P** in the diagram below.  
(2marks)



(b) The ratio of the interior angle to that of the external angle is 3:2 respectively. Name the polygon  
(4marks)

31 A business man deposited shs. 300,000 in a savings bank account for six months at an interest rate of 10% per month.  
(a) Calculate the simple interest.  
(2marks).

(b) Work out the amount he got after six months. (2markk).

32. In a group of 120 members, 36 like Matooke, 30 like Rice and 54 like Posho. Using a radius of 4 cm, draw a pie chart to represent the given information. (7 marks).