



ANKOLE DIOCESE EXAMINATIONS SECRETARIAT

PRE-MOCK EXAMINATION

2023

INTEGRATED SCIENCE

TIME ALLOWED: 2 HOURS 15 MINUTES

INDEX NO:

E M I S NO						Personal No.		

Candidate's Name: .....Signature:.....

School Name:.....

Archdeaconry.....

Read the following instructions carefully

1. This 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-pen or ink. Any work written in pencil other than graphs and diagrams will **not** be marked.
4. Unnecessary alteration of work may lead to loss of marks.
5. Any handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the box indicated "for Examiner's use only" and those inside the question paper.

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

TURN OVER

**SECTION A: 40 MARKS**

1. Name the type of soil with the highest capillarity.  
.....
2. In which way does boiling of water at home make it safe for drinking ?  
.....  
.....
3. State the use of root hair on the flowering plant.  
.....
4. Give **one** reason why a milkmaid needs to first clean teats of a cow with warm water before milking.  
.....
5. Name the vector that spreads river blindness.  
.....
6. Mention the main reason why the fish cannot survive on land.  
.....
7. Name the process by which chewed food move along the alimentary canal of human beings.  
.....
8. Which type of germination does the peas seeds under go ?  
.....

The diagram below, shows a head of a domestic bird. Study and answer the question that follows.



9. State the function of the comb on the head of a domestic bird.

10. Give the reason why it is not good to brush the teeth with hard sharp materials.

11. In which way are animals important during the process of photosynthesis ?

12. Name the undeveloped female bees that lay unfertilized eggs in a hive.

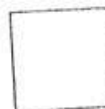
13. Which type of change occurs when a filament of a bulb burns ?

14. Name any one dairy breed of goats kept in Uganda.

15. What is the difference between proboscis and mandibles of insects ?

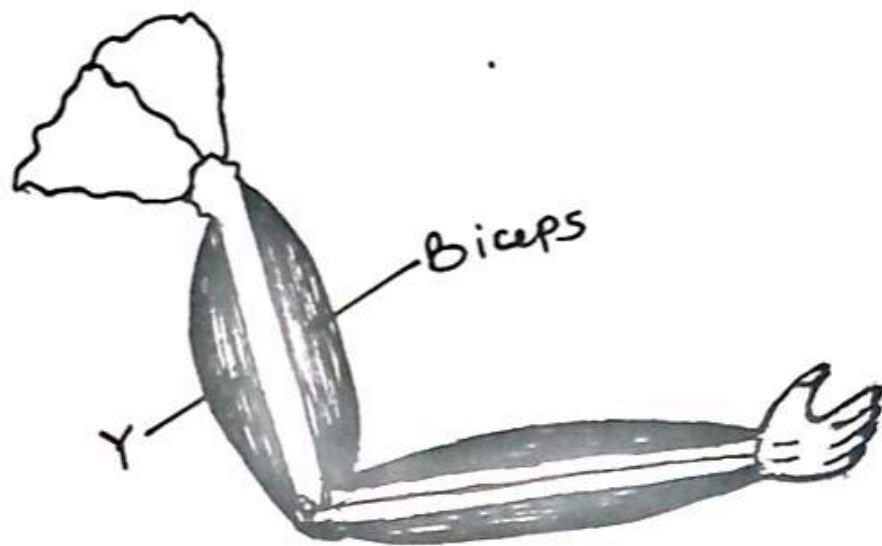
16. Why is it not good to switch off electricity with wet hands ?

17. Which disease is immunized against using Hep B vaccine ?



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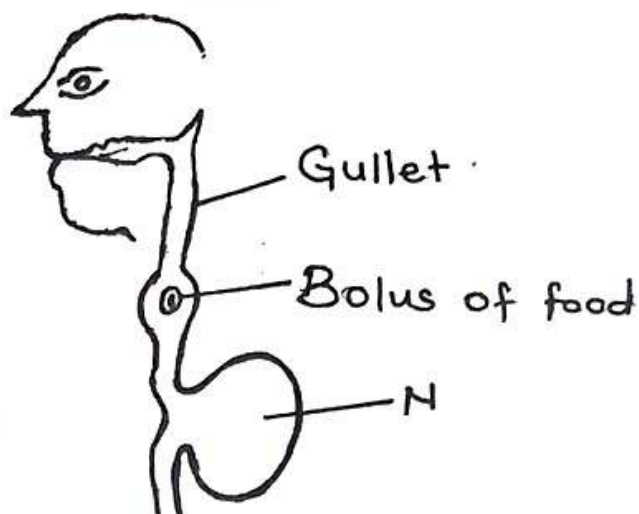
The diagram below shows the voluntary muscles on human arm. Study and answer the questions that follow.



18. Name the muscle labelled with letter Y.  
.....
19. State any one function of biceps on the human arm.  
.....
20. What name is given to heat energy transferred by radiation ?  
.....
21. In which group of animals do molluscs belong ?  
.....
22. Why does a dry wood float on water ?  
.....
23. Name one disease caused by fungi that affects the human reproductive system.  
.....



The diagram below shows part of the human digestive system. Study and answer the questions that follow.



24. What happens to boluses of food when they reach the organ marked N ?  
.....
25. Give any **one** disorder of the digestive system above.  
.....
26. Write down any **one** non cost practice of controlling pests in the garden.  
.....
27. State any **one** way of controlling bad smell in a VIP latrine.  
.....
28. How are oxen and donkeys used as energy resources in the environment ?  
.....
29. State any **one** danger of keeping petrol in the kitchen.  
.....
30. Name any **one** example of a layer breed of ducks.  
.....

Turn over

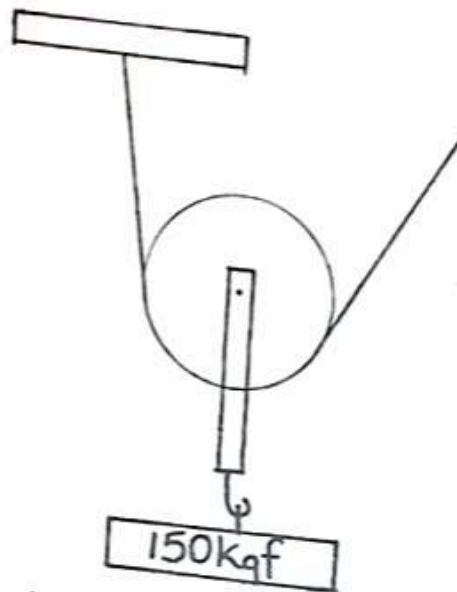


31. Mention any one reason why it is not good to leave basins full of water with babies at home.

32. Give any one reason why leguminous crops are included in crop rotation.

33. State any one cause of irregular reflection of light on the surfaces.

The diagram below shows a single movable pulley, study and answer the questions that follow.



34. What force is needed to raise a load of 150 kgf using the pulley above ?

35. Use letter E to show the direction of effort on the pulley above.

36. State any one organism that possesses hydrostatic skeleton.

37. Give any one way of controlling the spread of diseases in domestic rabbits.

38. Write down any one product of cow milk.

.....

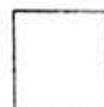
39. How is the propagation of carrots similar to that of conifers ?

.....

40. How is a minimum and maximum thermometer reset after using it ?

.....

.....



**SECTION B: 60 MARKS.**

41.a) State any two advantages of seed and fruit dispersal in the environment.

i).....

ii).....

b) State the agent of waterlily seed and coconut fruit dispersal.

.....

c) How is a black jack adapted for animal dispersal ?

.....

42.a) Give the use of the following reproductive organs.

i) Testicles:.....

ii) Uterus:.....

b) How are testicles in males similar to ovaries in females ?

.....

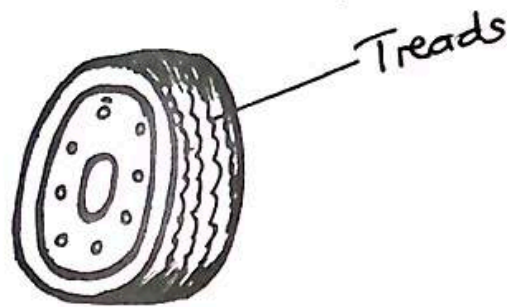
.....

c) Give any one disorder of the female reproductive organs.

.....

*Turn over*

43. The diagram below shows a car tyre, study and answer questions that follow.



- Give the function of treads on a car tyre.  
.....
- State any **one** use of sand paper to house painters.  
.....
- Mention any **one** reason why walking on wet murrum road is difficult.  
.....
- State any **one** reason why friction is regarded as a nuisance force.  
.....
- .....

44. The table below shows diseases of the human eyes and the germs that cause them. Study and answer questions on it.

	Diseases	Causes
i)	Conjunctivitis	.....
ii)	.....	Neisseria
iii)	Trachoma	.....
iv)	.....	Onchocerca volvulus



45.a) State any **two** causes of young parents in Uganda.

i) .....

ii) .....

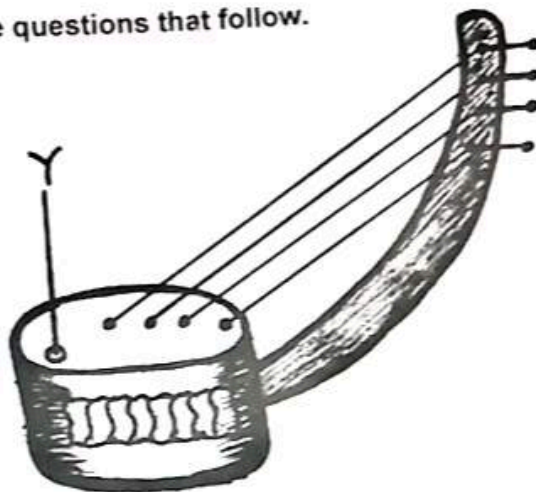
b) Give any **two** ways of reducing young parents in Uganda.

i) .....

ii) .....

46. The diagram below shows a musical instrument commonly used in schools.

Study and answer the questions that follow.



a). Name the musical instrument shown above.

.....

b) Give the main function of the hole on the instrument marked with letter Y.

.....

c) How does the above musical instrument produce sound ?

.....

d) State any **one** way of increasing the pitch of sound in the above musical instrument.

.....



Turn over

47.a) Explain the following terms as used in drugs.

i) Drug abuse:.....

ii) Drug misuse:.....

b) State any **one** drug commonly abused in our society.

c) Give any **one** danger of using narcotic drugs in the community.

48.a) State any **two** functions of the liver in the human body.

i) .....

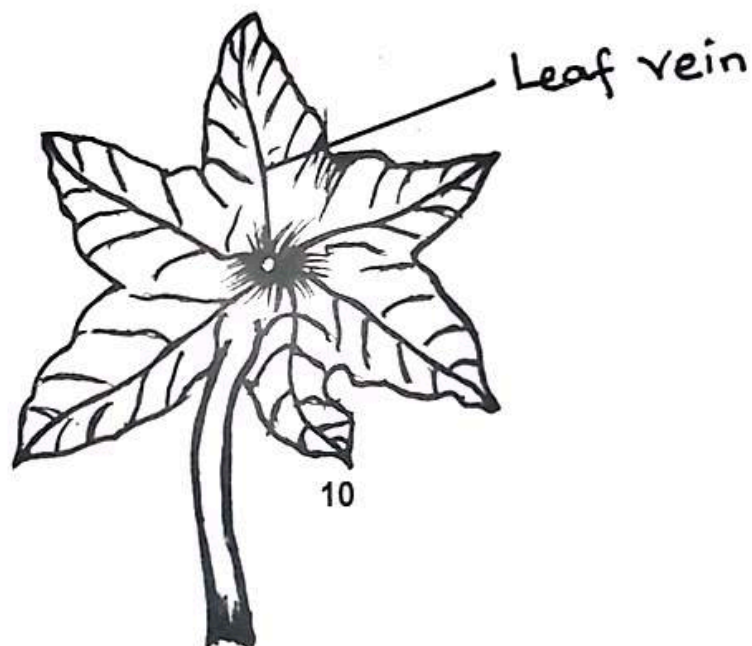
ii) .....

b) Name any **two** diseases that affect the human liver.

i) .....

ii) .....

49. The diagram below shows a plant leaf. Study and answer questions that follow.



a) Give any **one** function of leaf veins.

.....

b) State the reason why most plant leaves appear green in colour.

.....

c) Give any **one** reason why some plants close their leaves at night.

.....

d) Write down any **one** use of leaves on a plant.

.....

50. a) State any **one** way of reducing random mating in cattle keeping.

.....

b) Give any **two** disadvantages of random mating in a farm.

i) .....

ii) .....

c) State the reason why it is difficult to control random mating in free range grazing.

.....

.....

51. a) Which germ causes scabies in human beings ?

.....

b) How does the germ mentioned in number 51(a) enter the human skin ?

.....

c) Give any **one** way how scabies spread from infected people to a health person.

.....

d) State any **one** way of preventing the spread of scabies.

.....



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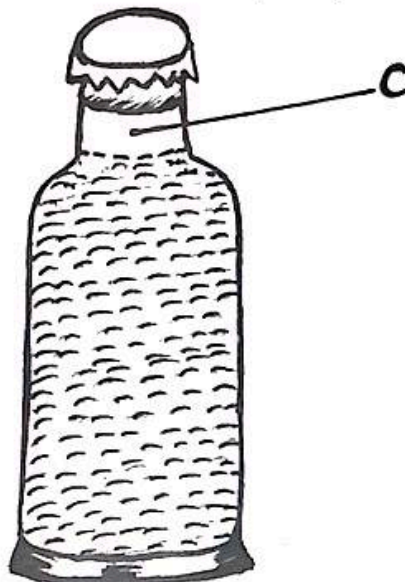
52.a) Give any one characteristic of snails.

b) Which water borne disease is spread by snails to human beings ?

c) Name the breathing organs of the snails.

d) How does a snail protect itself ?

53. The diagram below shows a bottled drink, study and answer the questions that follow.



a) Give the reason why space marked with letter C is left in the bottle

b) State any one reason why glass bottles with soft drinks break when frozen below  $0^{\circ}$  centigrade.



c) Why does a heated glass of lamp break when you apply cold water on it ?

d) What happens to matter when heated ?

54. a) Name any **two** causes of soil erosion in an area.

i) .....

ii) .....

b) Give any **two** ways of controlling soil erosion in an area.

i) .....

ii) .....

55. a) State any **two** activities to address health concern in the community.

i) .....

ii) .....

b) Give any **two** reasons why a health survey is carried out in the community.

i) .....

ii) .....



**END**