

# UGANDA NATIONAL EXAMINATIONS BOARD

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Index No .....  
Subject ..... SCIENCE

Name ..... 2022/042  
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53 (a) State the end product for each of the following.

- (i) protein
- (ii) carbohydrates
- (iii) fats

(b) How is the liver important during the digestion of food in the human body?

54 The diagram below shows a simple circuit. Study it carefully and use it to answer questions that follow.



- (a) Name part m.
- (b) State the function of part B.
- (c) What energy change takes place in an electric motor when it is switched?
- (d) Use arrows to show the flow of electrons in the diagram above.
- (e) What is pollination?
- (f) Mention any two characteristics of insect pollinated flowers.
- (g) Give the plant which undergoes cross pollination.

*END*

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- 13 State one cause of eye defects.
- 14 Mention one proper way of maintenance of good working condition of the kidney.
- 15 How is a gizzard able to carry out the function of grinding food during digestion?
- 16 Which is the dangerous stage of a housefly?
- 17 Give the importance of a stretcher in giving first aid.
- 18 Mention one accident that can happen at schools.
- 19 Name measures used in fire extinguisher.
- 20 State how process to reduce heat involves through water.
- 21 State why both amylase and lipase are useful in digestion.
- 22 Why is it not advisable to go to bed on an empty stomach?
- 23 Mention one good health habit for the teeth.
- 24 Give any one reason for people with special needs to study the ~~class~~ more easily and see it ~~for~~ in easier question.

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- (25) Give the function of part m. K
- 
- m (26) How do hairy bodies of a honeybee able to carry germs that spread diseases? A
- 27 Why should young boys avoid drug abuse? A
- 28 Mention one importance of occidex during the process of breeding. C
- 29 Give one way of controlling tapeworm infestation in humans. A
- 30 Give one reason why young girls should avoid teenage pregnancy. C
- 31 How does rural electrification concern the environment? A
- 32 State the unit for measuring rainfall. K
- 33 Guess two reasons why a motor has a problem in all moving parts of a machine. A
- 34 Identify the type of charge that leave piece when fluctuates? K
- 35 State one condition under which a mother may be stopped from breast feeding the baby. C
- 36 What is coxa position? K
- 37 Mention the structures of a Vip latrine that traps and kills flies. K

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38 State the difference between pitch and volume in sound.

39 Give the function of Valves in blood circulation.

40 Study the picture of cow peacock below and answer question 40.



Which method of seed dispersal do cows and peacocks undergo?

## SECTION B

1(a) What is a Vertebrate?

(b) State the two types of vertebrates.

(c) Give one characteristic of mammals.

4(a) What are excretaries?

(b) Give an example.

(c) Why does a medical doctor call a research laboratory an open laboratory?

4(b) Mention the organs which form the muscular system of the body.

(b) Name the two organs required for the production of energy in the body.

(c) Define the following terms:

(i) Organism (ii) Organ (iii) Tissue (iv) Cell

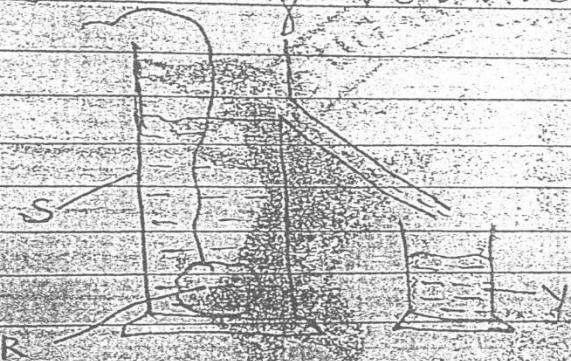
44 Name the set of teeth found in babies.

(b) Which type of teeth is missing in the set of teeth mentioned in (a) above?

(c) Give a reason why babies should be given soft food.

(d) State one way mothers can promote the strong growth of teeth in their children.

45 The diagram below shows a method of finding volume.



(a) Name the container marked 'S'.

(b) Identify the type of object labelled

(c) What does the water in container 'S' equal to?

(d) Give a reason for part (c) above.

46 (a) What is an echo?

(b) State one way echoes are important to bats.

(c) In which one way are echoes dangerous to people?

(d) Kabanda was struck 1.6 cm from his mouth who called out from his mouth. He called out from his mouth more than ten times by hitting the floor. How long did it take Kabanda to hear the echo?

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Study the beaks of birds below and answer questions that follow.

Beak X



Sharp, hooked beak

Beak Y



long, slender  
beak.

(a) How is each beak adapted to its function?

(i) Beak X

(ii) Beak Y

(b) What type of food do birds with such beaks feed on?

(i) Beak X

(ii) Beak Y

(c) State two ways plants depend on animals.

(i) How do animals depend on each other?

(ii) Give one way animals depend on plants.

(d) Identify one way land as a resource can be conserved.

(e) What is friction?

(f) Give one way of reducing friction on machines.

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- Q1 Find the work done by a man who pulled a wheelbarrow using force of 80kg through a distance of 9 metres.
- Q2 How are the following practices important on the animal farm?
- (i) Dipping
  - (ii) De-Worming
  - (iii) Dehorning
  - (iv) Castration
- Q3 Use the food chain below to answer the questions that follow.



- (a) Identify the following organisms in the above food chain.
- (b) Producer
- (c) Primary consumer
- (d) What do the animals represent in the above food chain?
- (e) What role do bacteria play in the food chain?
- (f) Complete the table correctly.

Before	Between	After
Measles	Bacillus	At birth
Pox	Murid mites	After mites
		A birth

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(iv) How is the liver important during the digestion of food in the human body?

54 The diagram below shows a simple circuit. Study it carefully and use it to answer questions that follow.



(a) Name part M

(b) State the function of part B

(c) What changes take place in an electric bulb when power is applied?

(d) The arrow going to M has the sense of electrons in the diagram above.

55 (a) What is pollination?

(b) Mention any two characteristics of insect pollination.

(c) Give the plant in which undergoes cross pollination.

*FWD*