



BROAD EXAMINATIONS®

P.6 INTEGRATED SCIENCE EXAMINATION END OF TERM II 2023

Time allowed: 2 hours 15 minutes

Pupil's Name:

School Name:

District Name:

Read the following instructions carefully:

1. This paper is made up of two sections: **A** and **B**.
2. Section **A** has **40** questions (**40 Marks**)
3. Section **B** has **15** questions (**60 Marks**)
4. Answer **ALL** questions in both sections **A** and **B**.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINERS' USE ONLY

PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

Teacher's comment to the learner

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Approved by:

[Signature]

Team Head Int. Science Dept.

SECTION A. (40 Marks)

ample of useful fungi.

Keep the trachea of the human respiratory system open all the

shows part of the human ear. Use it to answer question 3.



part shown above useful in the functioning of the human ear?

characteristic of dairy breeds of cattle.

leafy vegetables should be included in our diet.

of a moss plant similar to that of a mushroom?

allow more water to pass through it than other types of soil?

item used to kill germs in our hands after visiting a latrine.

feature that helps a wood pecker to climb trees.

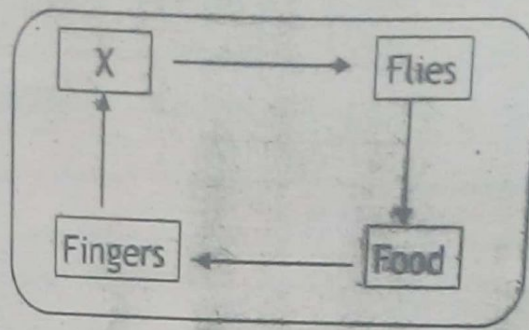
of modern bee hives.

conserving rare species of animals like white rhinos.

leaves of a banana sucker are cut off before its planting.

as a chisel shape?

The diagram below shows 4Fs disease path. Use it to answer question 14.



14. Mention the substance represented by letter X.

15. Why are rocks said to be non-renewable resources?

16. Name one member of a nuclear family that breastfeeds babies.

17. State the reason why a stone sinks in water.

18. Mention any one factor that leads to alcoholism among people in a community.

19. State one reason why cereal grains should be properly dried before storage.

20. Write down any one sign of heat period in cows.

21. Name any one injury on the body caused by contact with hot objects.

22. What role is played by cold water in distillation process of making alcohol?

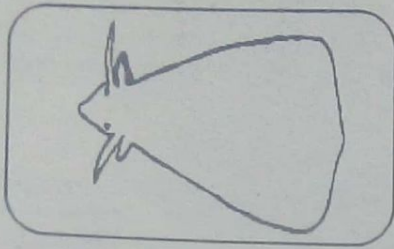
23. Give any one artificial method of plant propagation.

24. In which way are bacteria useful in soil formation?

25. State one way in which moulting is important to a snake.

26. Which part of a thermos flask prevents heat loss or gain by conduction?

The diagram below represents body conformation of a breed of cattle .Use it to answer question 27.



27. Mention the product got from the above breed of cattle.

28. In which way is oxygen important during respiration?

29. Name the liquid commonly used in clinical thermometers.

30. How are monotremes such as spiny ant eater similar to birds?

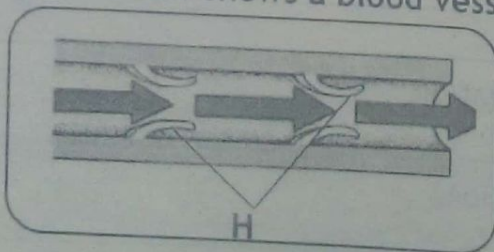
31. State the way in which prop roots are useful to a maize plant.

32. Mention one inactive stage in the lifecycle of insects.

33. State the garden tool used for transplanting seedlings.

34. Give the reason why decomposition is grouped under chemical changes.

The diagram below shows a blood vessel. Use it to answer question 35.



35. How are structures marked H useful in the working of the blood vessel shown above?

36. State the importance of litter in a poultry house.

37. Mention any one example of plant fibres.

38. State the role of sunlight in the process of photosynthesis.

39. Mention one instrument used to measure volume of irregular objects.

40. Give any one way tapeworms enter the human body.

SECTION .B. (60 Marks)

41. (a) Give any two products of cattle.

(i) _____

(ii) _____

(b) State two uses of cow dung at home.

(i) _____

(ii) _____

42. (a) State any two agents of seed dispersal.

(i) _____

(ii) _____

(b) How is black jack adapted to animal dispersal?

(c) In which way is seed dispersal important to plant life?

43. (a) Mention two processes involved in the water cycle.

(i) _____

(ii) _____

(b) Name the source of heat used in the water cycle.

(c) Which type of clouds is a clear sign of rain?

44. (a) State any two conditions under which a pregnant mother is regarded as vulnerable.

(i) _____

(ii) _____

(b) Apart from pregnant mothers, name any two other vulnerable groups of people.

(i) _____

(ii) _____

45. (a) To which group of vertebrates does a chameleon belong?

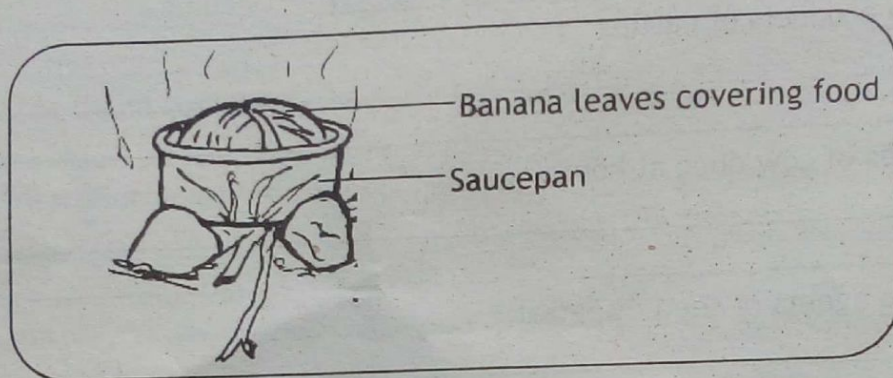
(b) Give two reasons why a chameleon changes colour.

(i)

(ii)

(c) How is a chameleon useful in the environment?

Below is a diagram showing preparation of food in a saucepan covered with banana leaves. Use it to answer question 46.



46. (a) Which fuel is used in preparation of food shown in the diagram above?

(b) State the purpose of covering food when cooking.

(c) How does heat from the charcoal stove reach food in a saucepan?

(d) Why do people use pieces of paper or used banana leaves to remove a saucepan from the cooking place?

47. (a) Give a reason why water is regarded as a universal solvent.

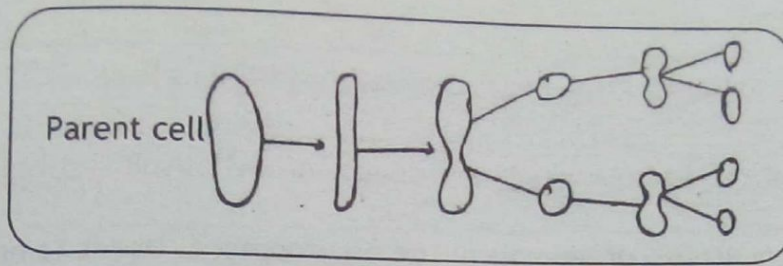
(b) Mention two examples of solutes.

(i)

(ii)

(c) What is formed when a solute dissolves in a solvent?

The diagram below shows a reproduction of bacteria. Use it to answer question 48.



48. (a) Name the mode of reproduction shown above.

(b) Which other organism reproduces in the same way as bacteria?

(c) Mention one condition that helps bacteria to reproduce.

(d) Give any one way multiplication of bacteria can be prevented in our homes.

49. (a) State any two examples of laboratory manufactured drugs.

(i)

(ii)

(b) Why is it important to follow doctor's advice on the use of laboratory manufactured drugs?

(c) Why should drugs be kept out of reach of children in a home?

50. (a) Give any two activities that can be done to promote sanitation in a community.

(i)

(ii)

(b) State any two dangers of poor sanitation in a community.

(i)

(ii)

51. (a) Give two examples of root crop pests.

(i)

(ii)

(b) Mention any one way pests affect root crops.

(c) Suggest any one way of controlling pests in root crops without using pesticides.

52. (a) State any two ways of maintaining soil fertility in gardens.

(i) _____

(ii) _____

(b) In which way does soil erosion lead to loss of soil fertility in gardens?

(c) Apart from soil erosion, name any one other cause of loss of soil fertility.

The table below shows groups of animals in the environment. Use it to answer question 53.

A	B	C
Snail	Spider	Grasshopper
Slug	Mite	Butterfly
Oyster	Scorpion	Beetles
Octopus	Tick	Bee

53. (a) To which group of invertebrates do animals in A belong?

(b) How do animals in groups B and C differ in terms of body parts?

(c) Which body structure helps animals in group C to breathe?

(d) State one major similarity that exists among animals in all the groups.

54. (a) Name the breed of sheep kept for wool production.

(b) What term refers to the cutting of wool from sheep?

(c) Mention any two uses of wool got from sheep.

(i) _____

(ii) _____

55. (a) Where does real gaseous exchange take place in the human respiratory system?

(b) Why does blood go to the lungs before it is pumped to all the body parts?

(c) What happens to the volume of lungs when one breathes in?

(d) Name any one non-infectious disease of lungs caused by smoking.

END