



THE PRIME EXAMINATIONS 2024

P.6 BEGINNING OF TERM III INTEGRATED SCIENCE (New Curriculum)

Time allocated 2 hours 15 minutes



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Name:

Signature:

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has two sections: A and B. Section A has 40 questions (40 Marks) and Section B has 15 questions. (60 Marks)
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 ink. Any work written in pencil will not be marked.
4. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
5. Do not fill anything in the table indicated
"FOR EXAMINERS' USE ONLY"

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1- 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

APPROVED:

[Signature]

Consultant

Integrated Science Department (PEC)

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Turn Over

Section A. (40 Marks)

1. Mention any one method of milking cattle.
2. How is the measles vaccine administered to infants?
3. Write any one agent of soil erosion.
4. Which element of PHC is promoted by sweeping and mopping at home?
5. How is sound produced by human beings?
6. Mention any one seed dispersed by animals.
7. How important are scavenger birds to the environment?
8. Give one importance of reproduction to living things.
9. State one difference between bacteria and most fungi in terms of reproduction.
10. Give one reason why animals move from one place to another.

The diagram below shows an example of a laboratory manufactured drug. Study and use it to answer questions 11 and 12.



11. State one importance of the information found on the drug above to the patient.
12. Give one reason for keeping the above drug out of reach of children.

13. What is transpiration?

14. Name any one foodstuff rich in proteins.

15. Where does gaseous exchange take place in the lungs of human beings?

16. Which part of an egg develops into a chick after fertilisation?

Below is a diagram of a bird, Study it and answer questions 17 and 18.



17. Identify the example of a bird with such a beak.

18. Why is the above example of bird grouped among vertebrates?

19. State any one sign of a cow on heat.

20. State the use of secateurs to crop farmers.

21. Write one element of weather that enables farmers' harvested crops to dry.

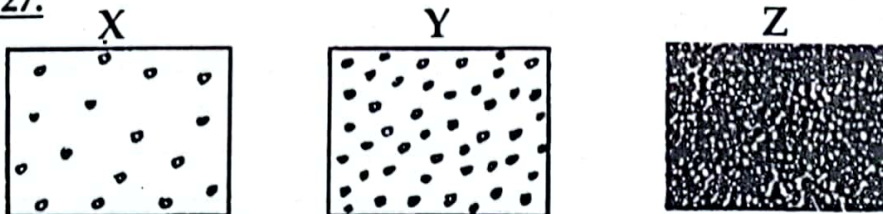
22. How does paddock grazing control parasites on a cattle farm?

23. What type of energy does a falling pawpaw have before it reaches the ground?

24. Give any one cause of a dehydration to infants.

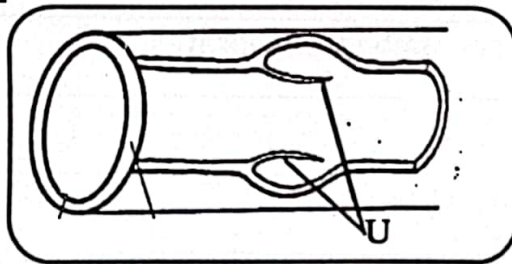
25. Why is water regarded as a universal solvent?

The diagram below shows different types of soil. Study and answer questions 26 and 27.



26. Name the type of soil marked with letter Z.
27. State any one property of soil sample Y.
28. Apart from hypogeal, give one other type of germination.
29. How are teeth similar to grits found in the gizzard of a hen?
30. Name any one example of a plant fibre.
31. How are suckers useful to a tapeworm?
32. Give one effect of poor feeding to babies.
33. Mention one example of domestic animals.

The diagram below is of a blood vessel. Study and use it to answer questions 34 and 35.



34. Name the part marked U on the diagram above.
35. How is part marked U useful in the blood vessel shown above?
36. Give one danger of sharing a shelter with goats.
37. Give a reason why minerals are regarded as non-renewable resources.
38. Give any one danger of deforestation to the environment.
39. State any one benefit of proper personal hygiene.
40. Give any one use of oxen on the farm.

Section B. (60 Marks)

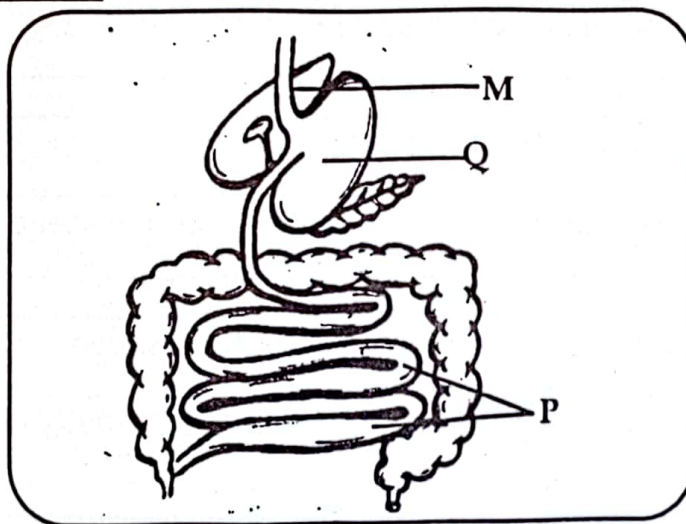
41. (a) Write down two plants propagated by means of suckers.
(i) _____
(ii) _____
(b) How is carrot propagated?

(c) Give any one way of caring for tuber crops.

42. (a) Why are we advised to wash our hands with clean water before preparing OI

(b) State one use of a tea spoon when preparing ORS locally.

(c) Mention two solutes used when making ORS locally.
(i) _____
(ii) _____
43. The diagram below is of a digestive system. Study and use it to answer questions that follow.



- (a) Identify part marked Q from the diagram above.

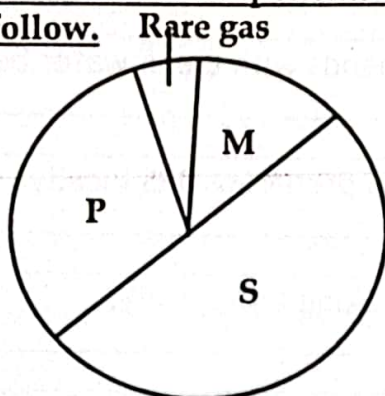
(b) Write down the process that takes place in part P.

(c) Where does digestion end in the human alimentary canal?

(d) Name any one enzyme found at part Q.

44. Mention any two;
- (a) Diseases of the respiratory system
- (i) _____
- (ii) _____
- (b) Disorders of the respiratory system
- (i) _____
- (ii) _____

45. The pie chart below shows components of air. Study and use it to answer questions that follow.



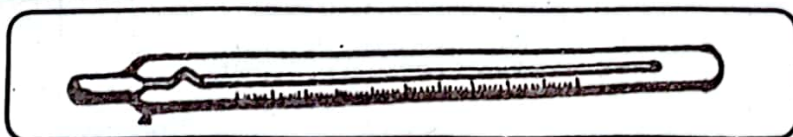
- (a) Identify the component of air labelled with letter M and S.
- (i) M _____ (ii) S _____
- (b) How is the component of air marked P important to animals?
- _____
- _____
- (c) Mention any one gas grouped under rare gases.
- _____
46. (a) Give the difference between docking and shearing as used in sheep rearing.
- _____
- _____
- (b) Give one reason why shepherds carry out docking of their sheep.
- _____
- (c) Apart from Toggenburg goats, mention any other example of dairy breeds of goats.
- _____
- (d) Name one bacterial disease that affect goats and sheep.
- _____

47. The list below shows animals. Study it carefully to answer the questions that follow.

A	B	C	D
Tilapia	Frog	Puff adder	Crocodile

- (a) *Apart from laying eggs*, give one similarity between animal A and B in the way they reproduce.
- _____
- _____

- (b) Identify the animal from the list above that moves by slithering.
 (c) To which group of vertebrates does animal D belong?
 (d) Name the common habitat for animals A, B and D.
48. (a) What form of energy stimulates the sense of hearing?
 (b) How is noise different from music?
 (c) Give any one use of sound in the environment.
 (d) State any one way how echoes can be reduced in the cinema hall.
49. (a) Give two reasons people give for abusing drugs.
 (i) _____
 (ii) _____
 (b) Mention any two dangerous chemicals found in tobacco.
 (i) _____
 (ii) _____
50. The diagram below is of a clinical thermometer. Study and use it to answer questions that follow.



- (a) Why is the above medical tool shaken before use?

- (b) Write down two thermometric liquids you know.
 (i) _____
 (ii) _____
- (c) Name any one part where the clinical thermometer is placed on the body of a patient.

51. (a) To which group of tuber crops does each of the following crops belong?
 (i) turnips _____
 (ii) irish potatoes _____
 (b) Name one example of a rodent which is a tuber crop pest.

 (c) Give any one way of harvesting tuber crops.

52. The process shown below takes place in plants. Study and use it to answer the questions that follow.

$$\underline{R} \text{ and water } \xrightarrow[\text{chlorophyll}]{\text{sunlight}} \text{Starch} + \underline{S}.$$

- (a) Name the plant process shown above.
- (b) Which components of air are represented by letter R and S?
- (i) R: _____ (ii) S: _____
- (c) How useful is sunlight in the process shown above?

53. Match the disease vectors against their germs.

A	B
(i) Black fly	Trypanosomes.
(ii) Tsetse fly	Vibrio cholerae
(iii) Water snail	Onchocerca Volvulus
(iv) Housefly	Schistosome
(i) Black fly	_____
(ii) Tsetse fly	_____
(iii) Water snail	_____
(iv) Housefly	_____

54. (a) Apart from ferns, mention two examples of spore bearing plants.

(i) _____

(ii) _____

- (b) Give any two economic importance of conifers.

(i) _____

(ii) _____

55. (a) State the use of the following instruments on the cattle farm.

(i) strip cup _____

(ii) lactometer _____

- (b) Give one reason for;

(i) washing hands with clean water before milking.

(ii) washing teats of a cow with warm water before milking.