



THE SPECTRUM EXAMINATIONS HUB
MID-TERM III EXAMINATIONS, 2024
P.6 INTEGRATED SCIENCE
TIME ALLOWED: 2 HRS 15 MINUTES

Pupil's name.....

School name.....

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. Answers must be written using a blue or blackball point pen or ink. Any pencil work will not be marked.
4. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
5. Do not fill anything in the table indicated; "For examiners' use only".

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 50		
51		
52		
53		
54		
55		
TOTAL		

SECTION A.

SECTION A: (40 marks)

1. Mention any one example of an arachnid.

2. Why is carbon dioxide used to preserve soft drinks?

3. Name the body organ that controls body actions.

4. Name any one crop propagated by means of suckers.

5. Mention one water borne disease.

6. What layer of soil is commonly carried away by agents of erosion?

7. Why is crude oil grouped under non-renewable resources?

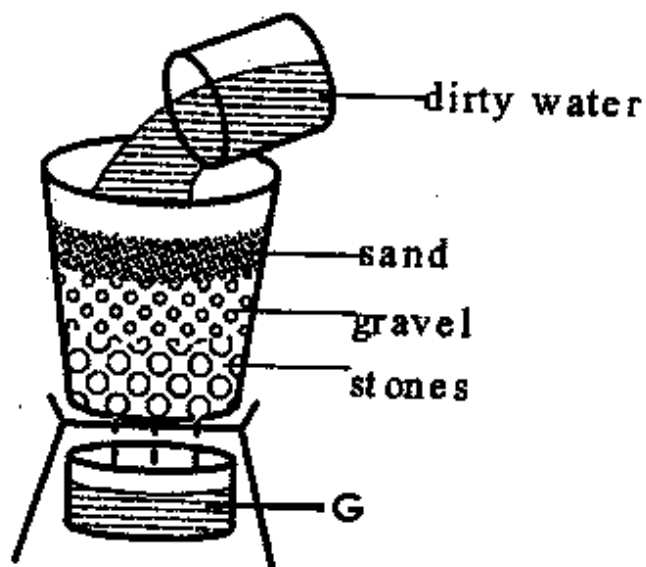
8. Give any one way of controlling mosquitoes at the larva stages.

9. Why are bats classified under mammals and yet they fly like birds?

10. Name one organism that decomposes organic matter in the environment.

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11. Give one characteristic which is common among all vertebrate animals.
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12. Mention one body organ which is affected by hepatitis B.
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13. Why are tsetse fly infested areas not suitable for human settlement?
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14. In which state of matter does heat travels by convection?
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The diagram below shows water being cleaned. Use it to answer questions 15 and 16.



15. What scientific term is given to substance G?
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16. Give one use of the water prepared by the method above.

17. Why is smoker an important tool in harvesting of honey?

18. Give the term used to refer to a special structure where chicks are kept.

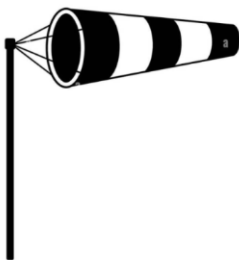
19. Name the type of weather that makes school children discover the use of a school sweater

20. How is the ileum adapted to its function?

21. Why are interior walls of cinema halls lined with thick curtains and soft boards?

22. How are swimming birds able to keep their feathers water proof?

23. Give the importance of the weather instrument below.



24. Write down the element of PHC that cares for pregnant mothers.

25. Why is respiration an important process in the human body?

26. Which deficiency disease is prevented by including proteins in the baby's diet?

The diagram below shows a plant. Use it to answer questions 27 and 28.



27. Name part marked **L**.

28. How is part marked **T** useful to a farmer?

29. Name any one harmful substance contained in tobacco smoke.

30. Identify the structures in the lungs where gaseous exchange takes place.

31. How can man protect himself from dangers of the sun?

32. State one danger of sharing a house with goats.

33. Give the reason why worker bees do not lay eggs.

34. What is formed when the nucleus of an ovum unites with that of a sperm?

35. Why do we breathe faster when we are scared?

36. Give one material which can't decompose.

37. State the importance of the equipment below to a first aider.



38. Mention any one method of controlling pests in a root tuber garden

39. Apart from hearing, state another function of the human ear.

40. Give an example of amphibians.

SECTION: B (60 MARKS)

41 (a) Mention two factors that affect the pitch of sound produced by a string instrument.

(i) _____

(ii) _____

(b) Give two ways of increasing the pitch produced by a string instrument.

(i) _____

(ii) _____

42. (a) What component of air is used to preserve tinned food?

(b) Why is the component of air named in (a) above used for preserving tinned food?

(c) Give any other two components of air.

(i) _____

(ii) _____

43. (a) Mention two examples commonly abused drugs.

(i) _____

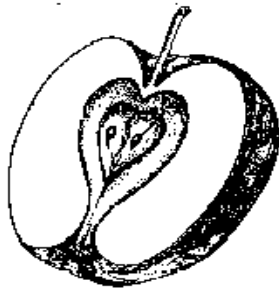
(ii) _____

(b) State two ways of avoiding temptations of taking narcotic drugs

(i) _____

(ii) _____

The diagram below is of an apple fruit.



(a) To which group of succulent fruits does it belong?

(b) From which part of a flower does it develop?

(c) How are its seeds likely to be dispersed?

(d) Give a reason for your answer in (c) above.

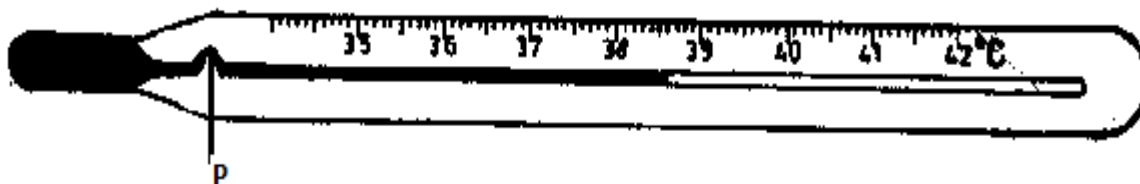
44 (a) What are arthropods?

(b) Identify any one characteristic of arthropods.

(c) _____
Point out one example of arthropods.

(d) _____
In which way are the poisonous claws useful to a centipede?

45. Study the diagram below and answer questions about it.



(a) What is the function of part P?

(b) Give a reason why a school nurse shakes the above instrument before taking new readings.

(c) State the importance of scale on the above thermometer.

(d) Which method of heat transfer enables the above instrument to work?

46 (a) State two functions of lungs.

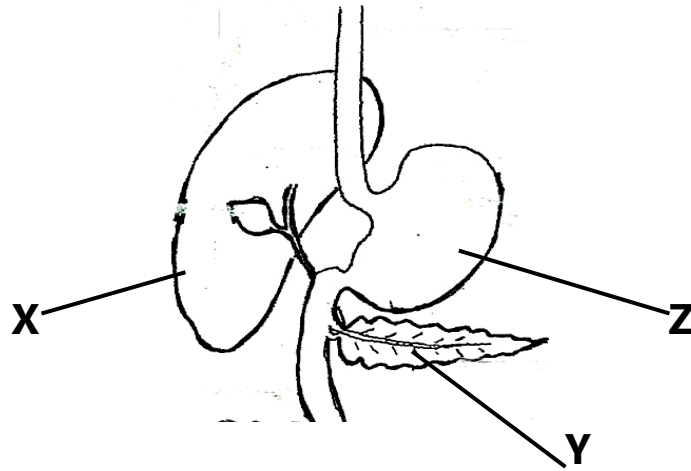
(i) _____

(ii) _____

(b) Why is the trachea made of rings of cartilage?.

(c) Mention one practice that is harmful to lungs.

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



(a) Name the parts labeled with letters **X** and **Y**.

X _____ **Y** _____

(b) Which digestive juice is produced by part marked **X**.

(d) State the class of food which is digested in part marked **Z**.

48.(a) State the role of the following teeth in one's mouth:

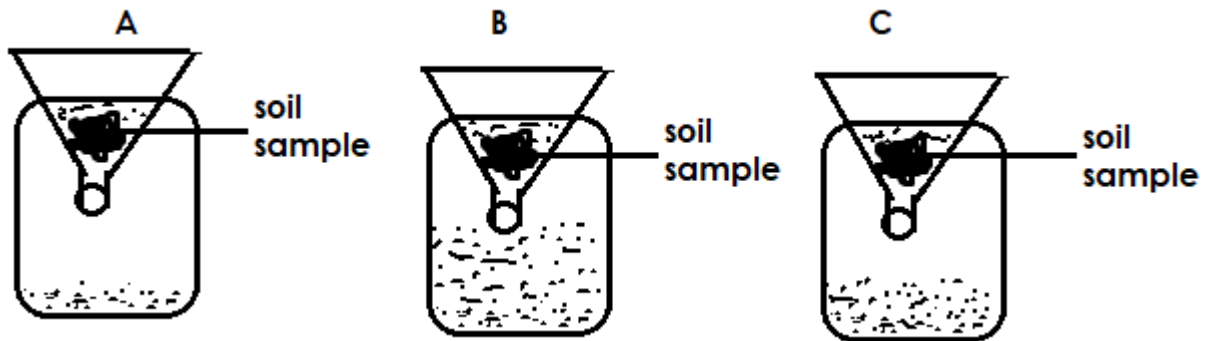
(i) Incisor teeth

(ii) Canine teeth

(b) Name the bone that holds teeth.

(c) Apart from calcium, state one other mineral necessary for growth of strong teeth.

49(a) The experiment below was carried out by a P.6 class. Study it carefully and answer the questions that follow.



(a) What does this experiment show about soil?

(b) Name soil sample marked A and B.

(i) A _____

(ii) B _____

(c) Which of the soil samples above would you recommend for crop growing?

50. Give two examples of biological changes in;

(a) plants

(i) _____

(ii) _____

(b) animals

(i) _____

(ii) _____

51. An Irish potato of mass 40g was immersed in a measuring cylinder containing 25cm^3 and the water rose to 45cm^3 mark.

(a) Find the volume of the Irish potato.

(b) What was the density of the potato?

(c) What is Density?

(d) Why was the method above used to find volume of the Irish potato?

52(a) Name one method of producing alcohol.

(b) In which way is alcohol important to people?

(b) Give one reason why people drink alcohol.

(d) Suggest one effect of alcohol to the family.

53(a) Give two importance of crop rotation.

(i) _____

(ii) _____

(c) State one factor considered when carrying out crop rotation.

(c) Mention one danger of growing beans in a garden where beans were harvested.

54(a) Give one source of heat.

(b) Mention two uses of heat.

(i) _____

(ii) _____

(c) State one way of preventing the dangers of heat.

55. **.Match items in A to B correctly.**

A	B
Secateurs	Turning manure in a compost pit
Forked hoe	Used for pruning
Garden fork	Used for transplanting seedlings
Trowel	Digging in rocky areas

(a) Secateurs _____

(b) Forked hoe _____

(c) Garden fork _____

(d) Trowel _____

END