

# STEM EXAMINATIONS BOARD

## PRIMARY SEVEN ASSESSMENT SET VII, 2024

### INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

Random No.						Personal No.		
Index No.								

Candidate's Name: .....

Candidate's Signature: .....

Strict ID No: 

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Read the following instructions carefully:

Do not write your **school** or **district** name anywhere on this paper.

This paper has two sections: **A** and **B**.  
Section **A** has **40** questions and Section **B** has **15** questions. The paper has **8 printed pages** altogether.

Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.

**All** answers must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than graphs and diagrams will **not** be marked.

Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.

Do **not** fill anything in the table indicated: **"For Examiners' Use Only"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXR'S NO.
1- 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

1. State any one role of hydrochloric acid in the stomach during digestion.

2. Give any one factor that affects the rate of food consumption in an area.

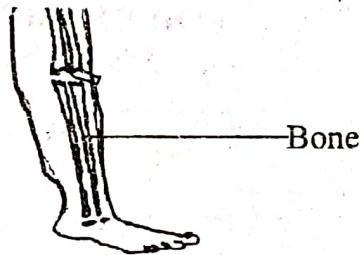
3. How do bacteria reproduce?

4. Why is water called a universal solvent?

5. Name the energy resource formed from the remains of long decomposed animals and plants.

6. How is dew formed in the environment?

The diagram below shows a body injury. Study and use it to answer questions 7 and 8.



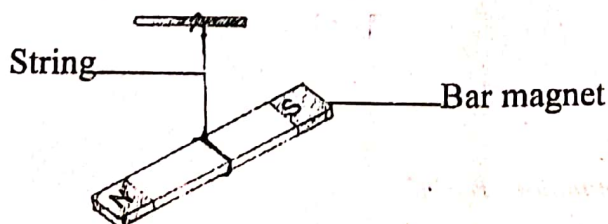
7. What type of injury is shown in the diagram above?

8. State any one sign of the above injury among human beings.

9. Why do bee keepers usually hang their hives off the ground?

10. Give any one way of promoting oral hygiene.

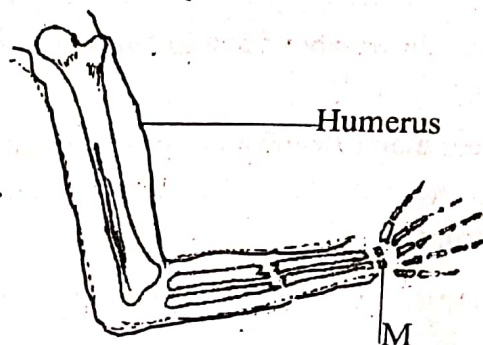
The diagram below shows a bar magnet freely suspended using a string. Study and use it to answer questions 11 and 12.





11. Which property of magnets is shown in the diagram above?  
.....
12. Why does a magnet freely suspended as shown above rest in North South direction?  
.....
13. State the benefit of constructing terraces along steep slopes of mountain.  
.....
14. Give any one characteristic of tuber crops.  
.....
15. How do insects breathe?  
.....
16. Name the soil layer used to enrich gardens with nutrients for plant growth.  
.....
17. What is the danger of germs to the human body?  
.....
18. Give any one function of roots to plants.  
.....
19. Why are plants called renewable resources?  
.....
20. Which component of blood defends the body against germs?  
.....
21. State the importance of boiling water for drinking.  
.....
22. How does immunisation keep the human body healthy?  
.....
23. Give any one non infectious disease which affects the human respiratory system..  
.....
24. How can a farmer identify a sick cow on his farm?  
.....
25. Why do engineers usually add murram on a newly constructed murram road?  
.....
26. Give any one importance of seed dispersal in the environment.  
.....
27. How does leaching cause loss of soil fertility?  
.....
28. Why do we usually display our beddings in the sunshine?  
.....

The diagram below shows the joint of a human body. *Study and use it to answer questions 29 and 30.*



29. Name the joint found at the part marked M.

30. Why is the joint at M called a movable joint?

31. What type of change is it when a young girl grows into a big girl with breasts?

32. Why is fish able to swim in water with less resistance?

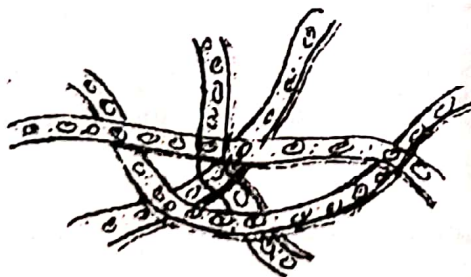
33. Give any one cause of sicknesses in a home.

34. Which fungal organisms causes rotting of food?

35. What happens when two naked wires carrying current get into contact?

36. Name any one disease spread by mosquitoes among human beings.

The diagram below shows eggs of amphibian. *Study and use it to answer the question that follows.*



37. Which amphibian lays eggs shown in the diagram above?

38. How does over cultivation cause soil erosion?



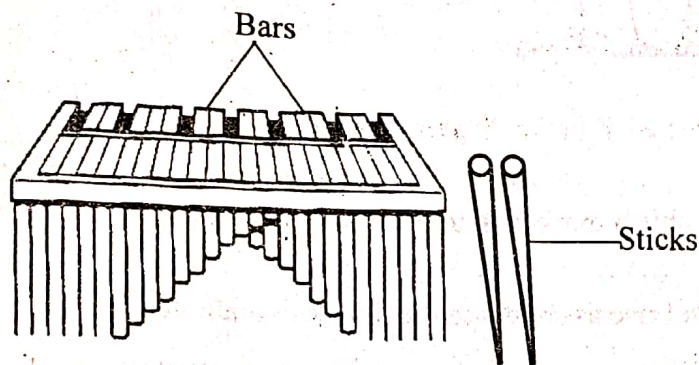
39. How do tapeworms get into the human body?

40. Give any one agent of pollination.

**SECTION B: 60 MARKS**

(Questions 41 to 55 carry four marks each.)

The diagram below shows a musical instrument. Study and use it to answer questions that follow.



41. (a) Name the musical instrument in the diagram above.

(b) What is the use of the sticks when playing the above instrument?

(c) Give any two instruments which belong to the same group as the one shown above.

(i).....

(ii).....

42. (a) Which two physical processes occur during distillation of alcohol.

(i).....

(ii).....

(b) Apart from distillation, state any one method used in making alcohol.

(c) Why is the delivery tube coiled when passed through cold water?

43. (a) Give two examples of carnivores.

(i).....

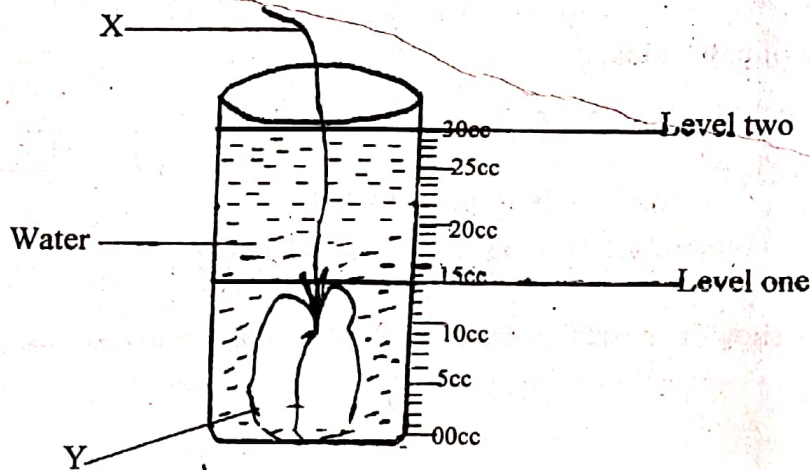
(ii).....

(b) State two reasons which make carnivores adopted to their way of feeding.

(i).....

(ii).....

The diagram below is about measurement. *Study and use it to answer the questions that follow.*



44. (a) Name the object marked Y in the diagram above.  
.....
- (b) State the use of the object marked X in the experiment above.  
.....
- (c) Why does water level rise as shown in the illustration above?  
.....
- (d) Name the method of finding the volume that has been used in the above experiment.  
.....
45. (a) Where does fertilisation take place in the human body?  
.....
- (b) Which part of the human womb prevents mother's blood from mixing with the baby's blood?  
.....
- (c) Give any two benefits of antenatal care.  
(i).....  
(ii).....
46. (a) Which two conditions are necessary for rusting to take place?  
(i).....  
(ii).....
- (b) Apart from rusting, give any two chemical changes in the environment.  
(i).....  
(ii).....
47. (a) What is the use of a potty to a mother?  
.....
- (b) Why is a VIP latrine said to be improved?  
.....



(c) Give any two ways of keeping an ordinary pit latrine clean.

(i) .....

(ii) .....

48. (a) Name any two types of poultry feeds.

(i) .....

(ii) .....

(b) Give any two reasons why poultry birds need proper feeding.

(i) .....

(ii) .....

49. Match energy resources with their uses correctly.

	Energy resources	Use (s)
(i)	Wind	Making nuclear bombs
(ii)	Steam	Running windmills
(iii)	Biogas	Runs steam engines on boats
(iv)	Uranium	Lighting in homes

(i) Wind .....

(ii) Steam .....

(iii) Biogas .....

(iv) Uranium .....

50. (a) State the benefit of administering vaccines through injections.

(b) Give any two vaccines administered into the human body through injections.

(i) .....

(ii) .....

(c) Apart from the injections, name one other method used to administer vaccines.

51. (a) Why do farmers carry out cross breeding among their cattle?

(b) Name two methods farmers use to serve their cattle.

(i) .....

(ii) .....

(c) Give any one benefit of serving a cow on heat using artificial means.

52. (a) Why should human beings always breathe through the nose?

(b) Name the small hairs which filter air in the respiratory tract during breathing.

(c) What happens to the following parts during breathing in;

(i) Lungs?

(ii) Ribcage?

3. (a) What is crop rotation?

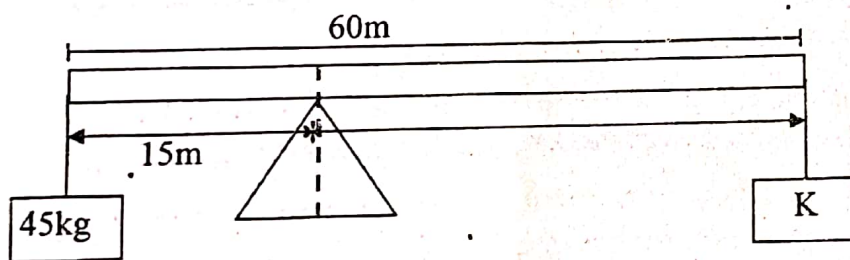
(b) How does crop rotation control crop pests?

(c) Apart from controlling pests, give any two benefits of crop rotation.

(i).....

(ii).....

The diagram below is about simple machines. Study and use it to answer questions that follow.



Find the value of K in the above diagram.

(04 marks)

(a) What is near drowning?

(b) Give any two places where near drowning occurs.

(i).....

(ii).....

(c) Why does "near drowning" occur?

END