

NATIONAL PRIVATE EDUCATIONAL INSTITUTIONS ASSOCIATION (NPEIA)

MOCKS MASTER SET I 2023

INTERGRATED SCIENCE

TIME ALLOWED: 2 HOURS 15 MINUTES

Index no.

--	--	--	--	--	--	--	--	--

Name : _____

School : _____

Stream : _____ Signature: _____

District : _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully.

1. This paper has two sections A and B. Section A has 40 questions and section B has 15 questions
2. Answer **ALL** questions. Answers to both sections A and B must be written in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any working done in pencil other than graphs, pictures and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks
6. Any hand writing that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the box indicated for 'Examiner's use only' and those inside the question paper

FOR EXAMINER'S USE ONLY

QN. NO.	MARK	EXR'S No.
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		



SECTION A

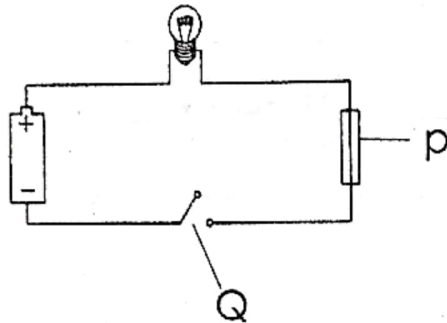
1. Give any one example of a sea mammal.

2. Name the product got from sheep that is used in textile industry.

3. State the property of matter that is caused by heat.

4. Name one example of a metal that has high degree of magnetism.

5. In which way is part P similar to Q in terms of their function?



6. Give any one way in which a married couple can prevent re-infection of syphilis.

7. How is a single fixed pulley used in a school?

8. Name the body organ which helps a cook to know if soup is cold or hot.

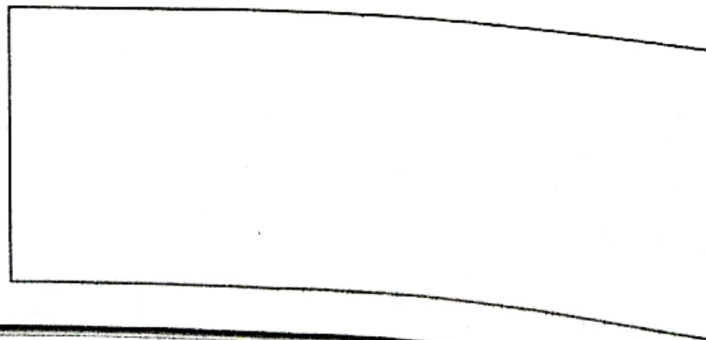
9. Give any one advantage of transpiration to plants.

10. How does a watermelon farmer preserve it after harvesting?

11. How is ventilation important in a living house?

12. In which one way is the use of energy saving stoves friendly to the environment?

13. In the space provided below draw a seesaw and label the fulcrum.



14. Which body condition makes a baby to have sunken fontanelle?
15. Why is it not advisable to drink distilled water?
16. What important role is played by water during seed germination?
17. How does soil erosion lead to soil infertility?
18. Why is it not encouraged to use a flush toilet when there is lack of water?
19. Name the cattle disease that causes salivation.
20. In which one way is the left ventricle of the heart important in circulatory system.
21. Why is self-medication discouraged?
22. How do plants help in rain formation?

Use the diagram drawn below to answer questions 23 and 24.

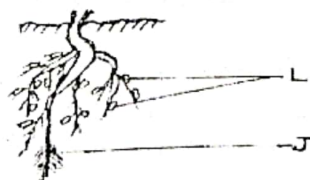


Opaque object



23. Draw the shadow of the above opaque object against it.
24. What happens when light falls on an opaque object?
25. How is methylated spirit important in giving first aid?
26. Give the similarity between biological change and chemical change.
27. Which process in plants enable manufactured food from the leaves to reach every part of the plant?
28. Which structures in earthworms help them to breathe?

Use the diagram below to answer question that follow.



29. Name the system of the plant illustrated above.

30. Besides, brushing the teeth give any one other way a P.7 pupil can take care of his / her teeth.

31. State one way of increasing friction on a bicycle tyre.

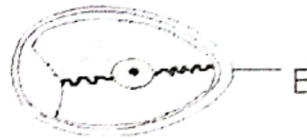
32. Give the importance of penicillium moulds to people.

33. Apart from filtering blood, mention one other function of kidneys in the body.

34. State the way of reproducing sound stored in solfas.

35. Why do the people treating COVID -19 victims put on face masks and gloves?

The diagram below is a structure of an egg use it to answer questions 36 and 37.



36. Give the similarity between part E and the lungs in human beings.

37. State one reason why an egg may fail to hatch under favorable conditions.

38. How does mulching prevent water loss from the soil?

39. State the difference between tendon and ligament in terms of their function.

40. Name any one disease that affects the liver due to excessive consumption of alcohol.

SECTION B (60 marks)

41a) Name any one farming method which helps to improve soil fertility.

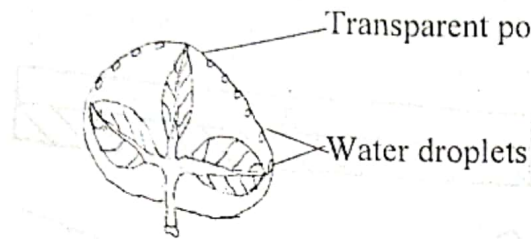
b) Mention the type of soil which is the best for making ceramics.

c) State any two causes of soil erosion.

i) _____ ii) _____



The illustration below is of a plant process, Use it to answer questions that follow.



a) Name the plant process shown above.

b) Give one importance of the above process to the environment.

i) _____

c) State any two ways plants can reduce the above process.

i) _____

ii) _____

43a) Apart from noise, write down any other two causes of swarming in bees.

i) _____

ii) _____

b) Why are bee farmers advised to put on bee veil when harvesting honey?

c) Give any one disadvantage of a traditional bee hive.

44. Match the following body organs to their blood vessels.

A

a) kidney

b) liver

c) Lungs

d) Heart

B

hepatic vein

renal vein

vena cava

pulmonary vein

a) Kidney _____

b) liver _____

c) lungs _____

d) heart _____

45a) Give any two advantages of artificial insemination.

i) _____

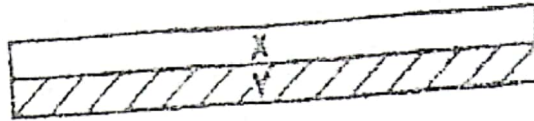
ii) _____

b) How can a farmer increase the milk production on his / her farm?

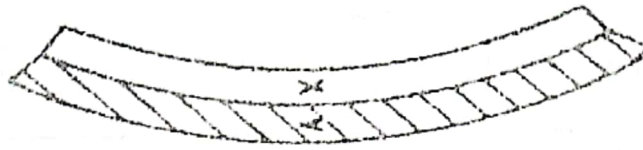
c) Name the breed of dairy cattle which is the best in milk production.

46. The diagram below shows one of the effects of heat on metals. Use it to answer the questions that follow.

Before heating



After heating



a) Which metal expanded more?

b) Why did the metal you have named above expand more, yet they were heated at the same time?

c) By what process does heat travel through;

i) solids _____

ii) Gases _____

47a) Give two ways people misuse drugs.

i) _____ ii) _____

b) State two dangers of buying drugs from market places.

i) _____

ii) _____

48a) What is friction?

b) Write down any one advantage of friction to a P.7 candidate.

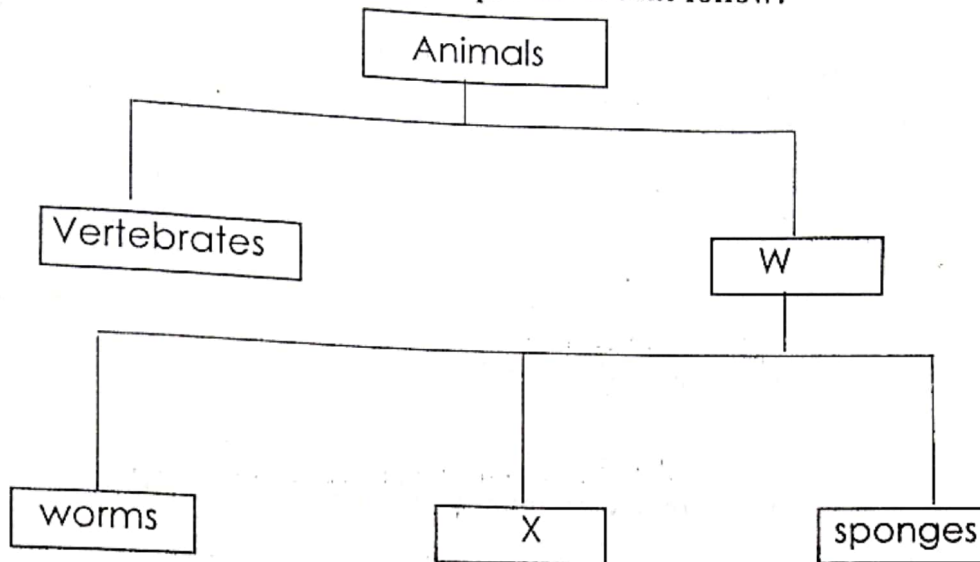
c) State any two ways of reducing friction in moving parts of a machine.

i) _____

ii) _____



49. Use the diagram below to answer questions that follow.



a) Name animals labeled with letters shown above.

i) X _____ ii) W _____

b) Identify one characteristic common in animals labeled W.

c) Why do animals move?

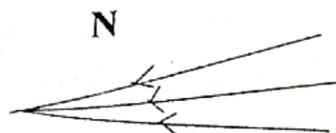
50a) What is a tide?

b) Give two ways how animals provide useful energy to people.

i) _____ ii) _____

c) How is biogas helpful to the environment?

51. Study the diagram below and answer questions that follow.



a) Name the beam of light marked N

b) Why does a red shirt appears red when you look at it?

c) State two properties of light.

i) _____ ii) _____

53a) What is poultry keeping?

b) Mention one example of poultry.

c) How do feathers help to keep the birds warm?

d) Name the method of keeping poultry commonly practiced in rural areas.

54a) Name any two respiratory gases.

i) _____ ii) _____

b) How are lungs similar to the skin in terms of excretion?

c) Identify one nitrogenous compound removed from the body by the kidneys.

d) Give one way of keeping the skin free from infection.

55a) What is skeleton?

b) Name two bones that make up hinge joint at the elbow.

i) _____

c) How are bones related to circulatory system?

d) Give one way of keeping muscular and skeletal system in a good working condition.

