

MEVID EXAMINATIONS BOARD

PLE PREPARATION SERIES($\frac{2}{3}$)

2025

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name.....

Candidate's signature:.....

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. **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 easily read may lead to **loss of marks**.
5. Do not fill anything in the table indicated: **"for examiner's use only"** and boxes inside the question paper

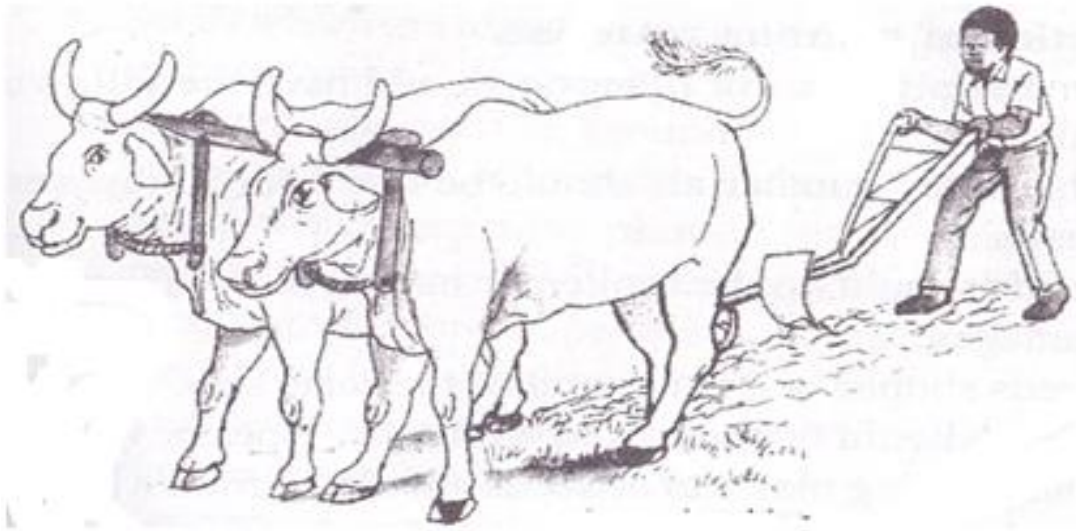
FOR EXAMINER'S
USE ONLY

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. Name any one habitat of plants in the environment.
.....
2. State any one protective function of the muscular skeletal system to the human body.
.....
3. State one reason why it is advisable to wash hands with clean flowing water at home.
.....
4. Give any one way of stocking hives in bee farming.
.....
5. State any one way how a child health card is important to the parents of a child.
.....
6. Give any one way of caring for soil organisms in the environment.
.....

The diagram below shows a type of cattle. Study and use it to answer questions 7 and 8.



7. Identify the type of cattle shown above.
.....
8. State one way how the type of cattle shown above helps to improve food production.
.....
9. Mention any one function of enzymes during food digestion.
.....

10. Which pigment in the human skin is used to determine its colour and protect it from sun radiation?

11. State any one way of reducing friction on the moving parts of a machine.

12. Mention any one relationship between mass and weight.

13. Write down any one factor considered when choosing systems of rearing poultry.

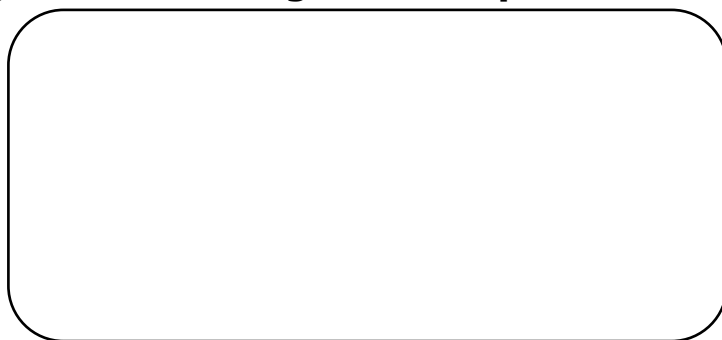
14. Mention any one danger of antisocial behaviour to school going children.

15. Name any one state of matter where heat travels through convection.

16. Which Vitamin deficiency disease is caused due to lack of vitamin **A** in the diet?

17. State any one importance of staking crops in the garden.

18. **In the space provided below, draw a property of a magnet which shows that magnetism is strongest at the poles.**



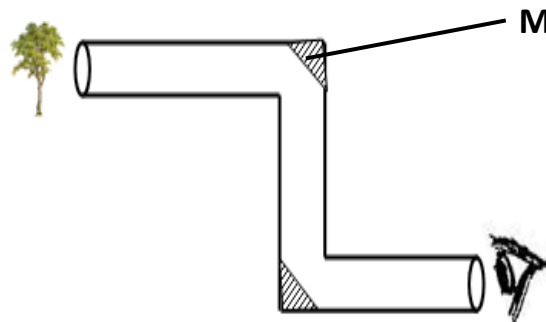
19. Give one reason why strips of water are usually seen on tarmac roads on a sunny day.

20. State one way how fly screen of a ventilated Pit latrine helps in the control of diarrhoeal diseases.

21. Mention any one way how white blood cells defend the body against diseases.

22. Which element of Primary Health Care promotes the general cleanliness of our classroom?
.....
23. Which part of a seed grows into a root system?
.....
24. State any one breed of goat kept for milk production.
.....
25. Apart from excretion, name any one process involved in the working of the human body.
.....
26. State any one way how PIASCY messages are passed to the public.
.....

The diagram below shows equipment used by an apiarist. Study and use it to answer questions 27 and 28.



27. State one way how part marked **M** is useful in the optical instrument above.
.....
28. Under which principle does the above optical instrument work?
.....
29. Give any one reason why it is a bad practice to share a house with animals.
.....
30. Which type of alcohol causes loss of sight to an individual?
.....
31. Which characteristic of plants enables them to absorb sunlight during photosynthesis?
.....
32. Give any one way of controlling inbreeding among animals on a farm.
.....

33. State any one way how malnutrition affects an individual in a family.

34. State any one disorder of the respiratory system.

35. Identify the type of incubation that is the best for commercial purposes.

36. Which immunisable disease is spread by drinking contaminated milk?

37. Apart from brightly coloured petals, name any one other thing that attracts pollinators to flowers.

38. State any one method of modern preserving of food.

39. Give any one fluid where HIV lives in the human body.

40. State one reason why anopheles mosquitoes are unable to spread malaria.

SECTION B

41 (a) Name any two physical changes involved in the water cycle.

(i).....

(ii).....

(b) State one importance of the sun in water cycle.

(c) State any one danger of cloud cover in the environment.

42 (a) State the meaning of the word family planning.

(b) Apart from using diaphragm, mention any two other artificial methods of family planning.

(i).....

(ii).....

(c) Write any one myths and misconceptions about family planning in our community.

43. Study the table below and complete it correctly.

Mixtures	Methods of separation
Sand and salt	
.....	Separating funnel
Alcohol and water	
.....	Filtration

44 (a) Which type of family has the following members;

(i) Mother, father, biological children and a maid.

.....

(ii) Mother, father, children and uncles.

.....

(b) State any one importance of budgeting in a family.

.....

(c) Give any one role of a family in promoting health of its members.

.....

45 (a) State one difference between clean water and safe water.

.....

.....

(b) You have been provided with the materials; Charcoal stove, clean water, a kettle and a clean container. Describe how you make clean water safe for drinking at home. **(3marks)**

(i).....

.....

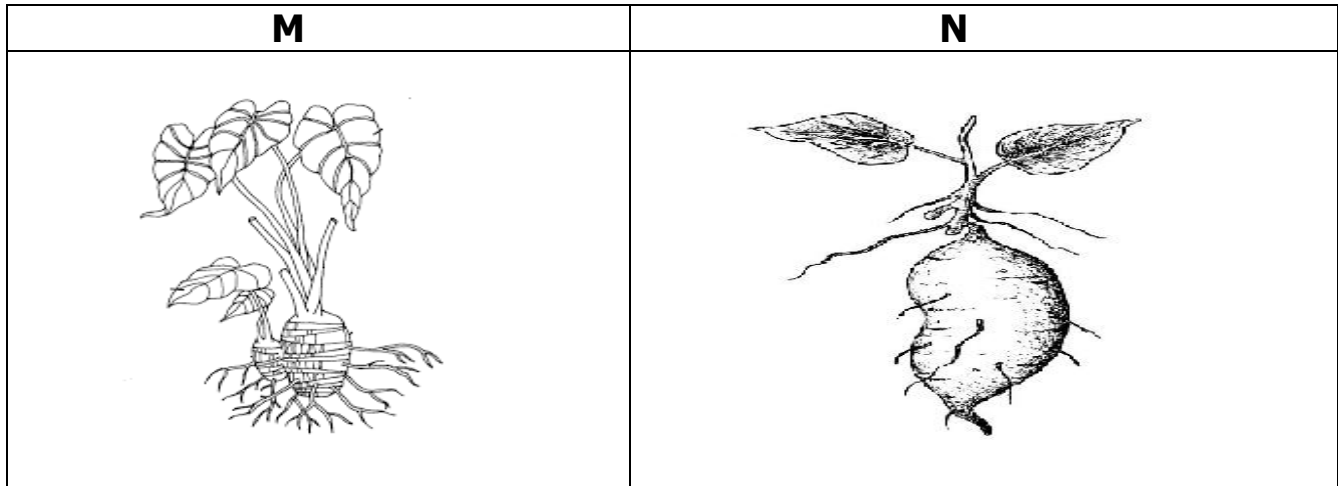
(ii).....

.....

(iii).....

.....

46. The diagram below shows tuber crops. Study and use it to answer questions that follow.



(a) Name the tuber crops marked M and N in the environment.

(i) M.....

(ii) N.....

(b) State one way how propagation of the tuber M is different from tuber N.

.....

.....

(c) Give any one reason why the tuber crops above are grown in mounds in the garden.

.....

47 (a) State one way how the cause of burns is different from that of scalds.

.....

.....

(b) Explain why a first aider is not advisable to apply the following materials on burns and scalds.

(i) Salts:

(ii) Animal dung:

(c) Mention any one way of controlling burns and scalds at home.

.....

48. Okello John dug a rubbish pit near his home and his family members were disposing rubbish and other kitchen refuse in it, after few months the rubbish pit was full with heaps of rubbish and he was planning to dig a new rubbish pit but his friends advised him not to dig another rubbish pit since germs would make the volume of rubbish reduce after sometime and he will continue to use the same rubbish pit.

- (a) Identify the chemical reaction that will cause reduction in the volume of rubbish in the pit.
.....
- (b) State one way how germs will cause reduction in the volume of rubbish in the pit.
.....
- (c) Apart from reducing the volume of rubbish in the pit, state any one other way how the chemical change named in (a) above is important in our environment.
.....
- (d) Give any one way of protecting our body against germs and diseases.
.....

49. The diagram below shows methods of making compost manure. Study and use them to answer questions that follow.

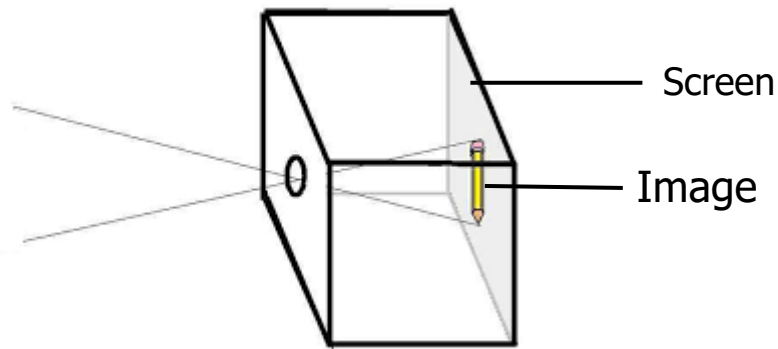


- (a) Name any one material placed in the pit **Y** during production of compost manure.
.....
- (b) State any one reason why ash/lime is added into the compost heap during turning as shown in diagram **X** above.
.....
- (c) State the importance of sprinkling water into the materials in the compost heap.
.....
- (d) Apart from compost manure, name any one example of organic manure.
.....

50 (a) Mention the young ones of the following animals in our environment.

- (i) Rabbit:
- (ii) Goat:
- (b) Write down any one reason why animals move from one place to another.
.....
- (c) State any one way how goat rearing is important to the textile industry.
.....

51. The diagram below shows a pinhole camera. Study and use it to answer questions that follow.



(a) On the diagram above. Complete it by showing light rays and position of an object. **(2marks)**

(b) State one reason why images formed on pinhole cameras are inverted/upside down.

(c) Apart from a periscope, name any one example of an optical instrument.

52 (a) Give any one example of beverage and fruit perennial crops.

(i) Beverage perennial crop:

(ii) Fruit perennial crop:

(b) State any two uses of roots to people.

(i).....

(ii).....

53 (a) State one difference between food customs and food taboos.

(b) Give any one example of each of the following;

(i) Food custom:

(ii) Food taboos:

(c) State one reason why matooke is a staple food in central region.

54 (a) State one reason why docking is carried out on a sheep farm.

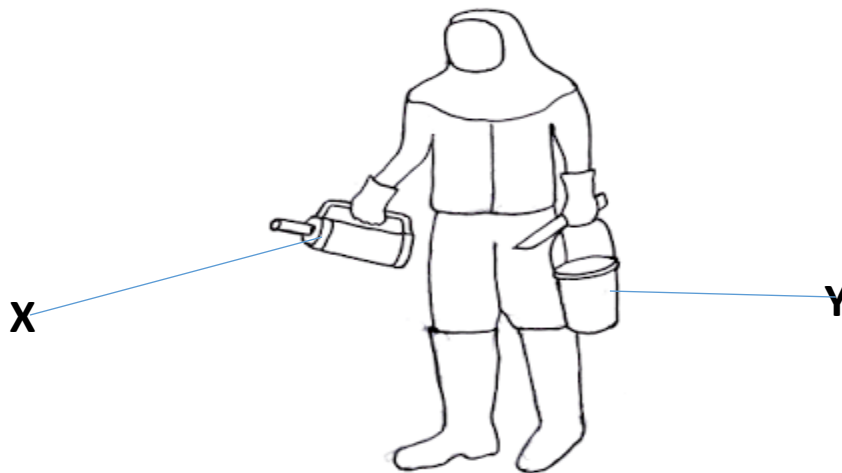
.....
(b) Lists any one example of local breed and exotic breed of sheep.

(i) Local breed:

(ii) Exotic breed:

(c) Write down any one way how sheep rearing is important to textile industry.

.....
55. The diagram below shows equipment used by a honey harvester. Study and use it to answer questions that follow.



(a) Identify the parts marked **X** and **Y**.

(i) X

(ii) Y

(b) State the importance of part marked **X** during honey harvesting.

.....
(c) Give any one example of fuel used in the equipment marked **X**.

.....