



PURSUIT OF EXCELLENCE EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATION

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District Id No.

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Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 Printed pages** altogether.
3. Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table:
"FOR EXAMINER' 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		

Tel: 0786505254 - 0705015780

SECTION A: 40 MARKS

Questions **1** to **40** carry **one** mark each.

1. Name the immunisable disease that is spread by a mosquito.
.....
2. Give the reason why maize plants are grouped as annual crops.
.....
3. State the characteristic of sand that makes it suitable for laying bricks.
.....

The diagram below shows an optical instrument. Study and use it to answer questions **4** and **5**.



4. Name the optical instrument shown in the above diagram.
.....
5. In which way does the optical instrument named in (**4**) above ease a doctor's work?
.....
6. State any **one** way in which the human heart is maintained in a proper working condition.
.....
7. Mention the part of a **VIP** latrine that traps and kills flies.
.....

8. Give any **one** way in which termites improve on the fertility of soil.

.....

9. State **one** element of Primary Health Care (**PHC**) which is important in controlling the spread of malaria.

.....

.....

10. Mention any **one** item that is used to keep the oral cavity clean.

.....



11. In which way does a fuse help to prevent fire caused by electricity in a circuit?

.....

.....

12. Apart from honey, name **one** other edible product people get from honey bees.

.....

13. State any **one** way in which air exerts pressure is important in our daily life.

.....

.....

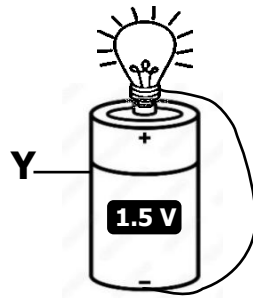
14. Give any **one** factor that affects the rate of evaporation of water.

.....

15. State any **one** reason why commercial farmers prefer artificial incubation to natural incubation.

.....

Use the diagram of a simple circuit below to answer questions **16** and **17**.



16. State the energy change that takes place in device marked **Y** when the circuit is complete.

.....

17. Use an arrow to indicate the flow of current on the conducting wire on the above diagram.

.....

18. In which way is the function of the vena cava similar to that of pulmonary artery?

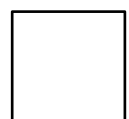
.....

19. State any **one** way of controlling drought in an area.

.....

20. Give the reason why fire extinguishers are installed in open places.

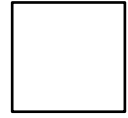
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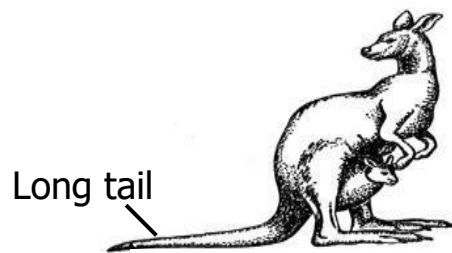
21. Mention **one** thing that is observed when water is heated to **100°C**.
.....
22. State any **one** way in which scavenger birds are important in the environment.
.....
23. Give the reason why adding salt in Oral Rehydration Solution (**ORS**) is important.
.....
.....
24. Mention any **one** exotic breed of cattle reared for milk production.
.....
25. State any **one** reason why transplanting of seedlings is carried out in the evening hours.
.....
26. What form of accident results from body contact with a hot metal?
.....
27. State any **one** way in which smoking affects the health of unborn baby during pregnancy.
.....
28. Give any **one** role played by a school health prefect in a school.
.....
29. State any **one** way in which the effect of crop pests is controlled in a garden.
.....
.....

30. Give any **one** advantage of using solar energy for cooking other than wood fuel.

.....



Use the diagram of the animal below to answer questions **31** and **32**.



31. To which group of animals does the above shown animal belong?

.....

32. State the way in which the long tail of the shown animal eases its stance.

.....

33. Name the human body organ that manufactures vitamin **D** with help of sunlight.

.....

34. State any **one** way in which condensation is important in the environment.

.....

.....

35. Give any **one** way in which wedges are useful in our daily life.

.....

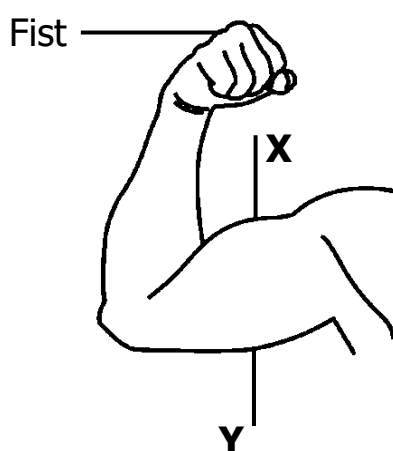
36. Identify the method of propagation where the new plants are obtained by planting seeds.

.....

37. In which way is the function of anthers in flowering plants similar to that of testes in humans?

.....

Use the diagram of the muscles below to answer questions **38** and **39**.



38. Why are muscles **X** and **Y** referred to as antagonistic muscles?

.....

39. State what will happen to the human arm if muscle **Y** contracts.

.....

40. What sanitary activity is done in a home using a broom?

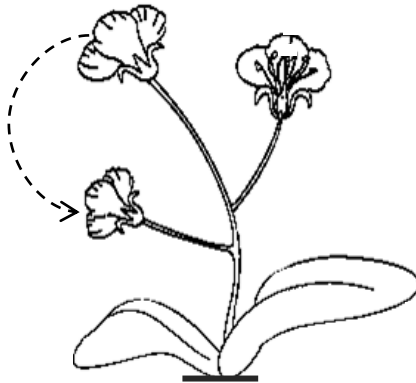
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SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41. (a) Mention the **two** processes in which soil is replaced when used up.
- (i)
- (ii)
- (b) Give the reason why soil is regarded as a renewable resource.
-
- (c) State any **one** way in which soil can be used as a resource in the environment.
-
42. The diagram below shows a type of pollination. Study and use it to answer the questions that follow.



- (a) Identify the type of pollination represented in the above diagram.
-
- (b) Give a reason for your answer in 42 (a) above.
-

- (c) State any **two** characteristics of flowers which undergo the same type of pollination identified in 42 (a) above.

(i)

(ii)

43. (a) Give the meaning of the term sanitation.

.....
.....

- (b) State any **two** concerns of sanitation in a community.

(i)

(ii)

- (c) Give any **one** importance of carrying out sanitation in a community.

.....
.....



44. (a) Mention the force that opposes motion between two surfaces that are in contact.

.....

- (b) State any **two** ways in which the named force in 44 (a) above is regarded as a nuisance force.

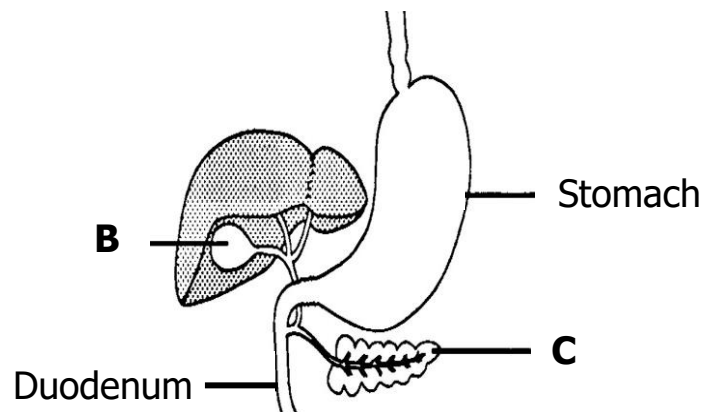
(i)

(ii)

- (c) Give any **one** way of overcoming the named force above in moving parts of a machine.

.....

45. (a) State any **two** reasons for proper housing of goats.
- (i)
- (ii)
- (b) Mention any **one** quality of a good goat house.
-
- (c) Give any **one** disadvantage of tethering method of rearing goats.
-
46. The diagram below is of digestive system. Study and use it carefully to answer the questions that follow.



- (a) Name the digestive juice that is stored in part **B**.
-
- (b) Use a line segment and letter **A** to **label** and **name** the part that allows peristalsis on the above diagram.
- (c) Identify the class of food that is chemically digested in the duodenum.
-
- (d) State any **one** way of maintaining the above body system in a healthy working condition.
-



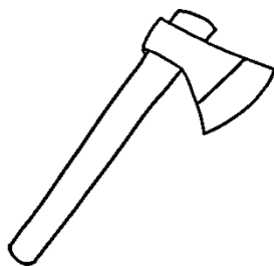
47. (a) What term is used to mean the objects that remain on top when placed in water?
.....
- (b) State the reason why some objects remain on top when placed water.
.....
- (c) Mention any **two** objects that remain on top of water when placed in it.
- (i)
- (ii)
48. (a) Name the body system that brings oxygen into the human body.
.....
- (b) Identify the part of air that is removed as waste product by the human lungs.
.....
- (c) State any **one** characteristic of human lungs that enable them them to carryout gaseous exchange.
.....
- (d) Give **one** way of controlling the diseases that attack the human lungs.
.....
49. (a) Mention the fowl vice farmers control by putting laying boxes in dark corners.
.....
- (b) State any **one** cause of the mentioned fowl vice in 49 (a) above.
.....

- (c) Mention any **two** management practices done by a farmer in a fowl farm.

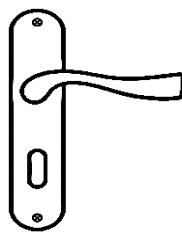
(i)

(ii)

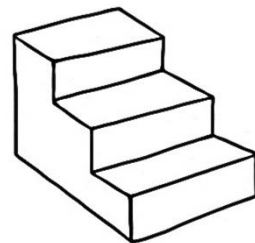
50. Use the diagrams of the simple machines below to answer the questions that follow.



An axe



Door knob



Staircase

- (a) To which class of simple machines can one put;

(i) The axe?

.....

(ii) The door knob?

.....

- (b) State any **one** way in which the above simple machines simplify work.

.....

- (c) How can a person improve on the staircase above in order to make his/her work easier?

.....

.....



51. (a) Name the deficiency disease that causes retention of fluids in the body of children.

.....

- (b) Mention **two** food stuffs that provide plant proteins when eaten.

(i)

(ii)

- (b) State the best way of controlling deficiency diseases among children.

.....

52. The table below shows the human body organs, the body system to which they belong and organ function. Study and complete it.

Organ	Body system	Organ function
Liver	Digestive
.....	Reproductive	Produces sperms
Kidney	Removes urine
Lungs	Respiratory

53. (a) What name is given to the most active type of bees in a hive?

.....

- (b) State **two** roles of the bees mentioned in 53 (a) above.

(i)

(ii)

- (c) Give any **one** way in which beekeepers can improve on the quality of honey production in a hive.

.....

54. (a) State any **one** reason why electricity is referred to as a form of energy.

.....

- (b) State any **two** advantages of cooking using electricity.

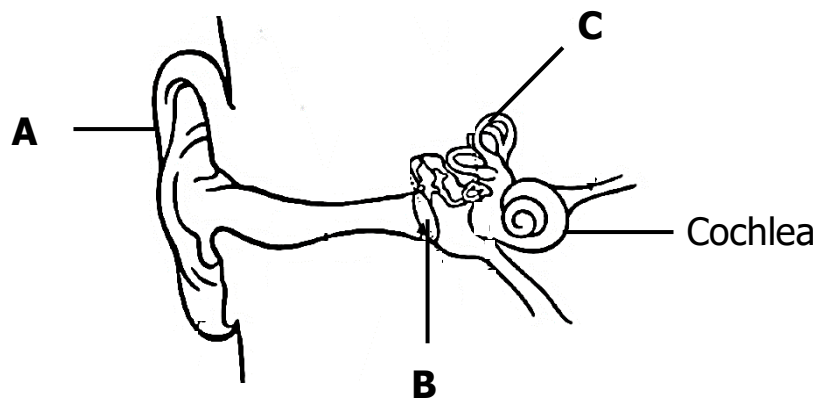
(i)

(ii)

- (c) Give any **one** precaution taken when using electricity.

.....

55. The diagram below is of a human ear. Study and use it carefully to answer the questions that follow.



- (a) Name the parts of the human ear marked **B** and **C**.

(i) Part **B**

.....

(ii) Part **C**

.....

- (b) State any **one** way in which part marked **A** is adapted to its function of collecting sound waves.

.....

- (c) Give any **one** way of caring for the human ear.

.....

