



THE E-LEARN EXAMINATIONS BOARD

PRE-PLE SET FIVE / TEN

2025

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random. No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

1. Do not write your **district name** anywhere on the paper.
2. This paper has **two** sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **12 printed pages** altogether.
3. Answer **all** questions. **All** answers for 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 other than drawings 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 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: 50 MARKS

Questions **1** to **50** carry **one** mark each.

1. Name the type of teeth with characteristics similar to a carpenter's chisel.

.....
2. Give a reason why farmers prefer harvesting tuber crops during the rainy season.

.....
3. Mention the exotic breed of goats well known for its fine mohair.

.....
4. State any one characteristic of seeds dispersed by water in the environment.

.....
5. Mention **one** method used in preserving hides that require heat energy.

.....
6. In the space below, draw a first aid item that can be used to carry Mahad whose two legs have a compound fracture.
7. Mention the disorder of the digestive system controlled by eating food with low fat content.

.....
8. State **one** importance of lightning in the environment.

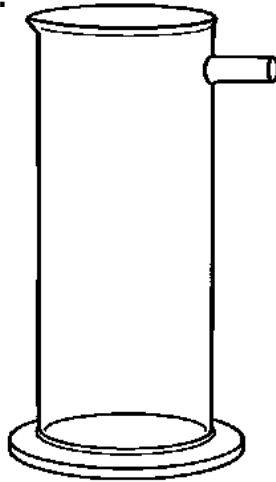
.....
9. Give **one** similarity between rusting and germination.

.....

10. State what happens to pollen grains when they land on the stigma.

.....

Below is a tool used when finding the volume of an Irish potato? Use it to answer questions **11** and **12**.



11. Name the above tool.

.....

12. Mention the method of finding volume which requires that tool.

.....

13. State the reason why mechanical advantage of a single fixed pulley is **one**.

.....

14. Mention **one** way of managing accidents at school.

.....

15. State the major reason for conserving resources like animals in the environment.

.....

16. Give **one** way in which vectors are different from germs.

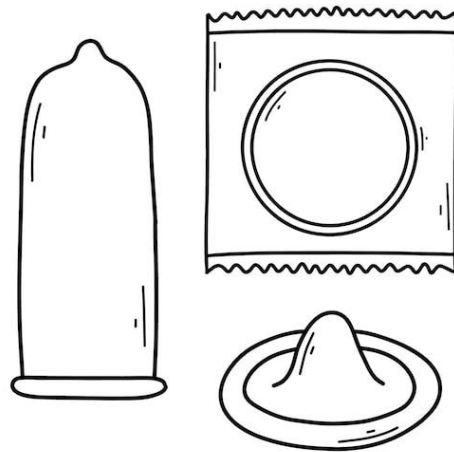
.....

17. Give a reason why Kato who is planning to start brick making project needs clay soil.

.....

18. Mention **one** type of poultry you know.
.....
19. State the similarity between bacteria and fungi as part of food chain.
.....
20. State what is likely to happen if the trachea fails to remain open for some time.
.....

Study the item below and use it to answer question 21 and 22.



21. Mention the element of Primary Health Care (PHC) promoted by the proper use of the items.
.....
22. Apart from checking on the population of an area, give **one** other reason why the government gives out the above item free of charge.
✓
23. Give **one** way in which bedbugs lead to anaemia.
.....
24. Mention **one** water-borne viral disease that is immunisable.
.....
25. Give the step in washing clothes where water without detergent is used.
.....

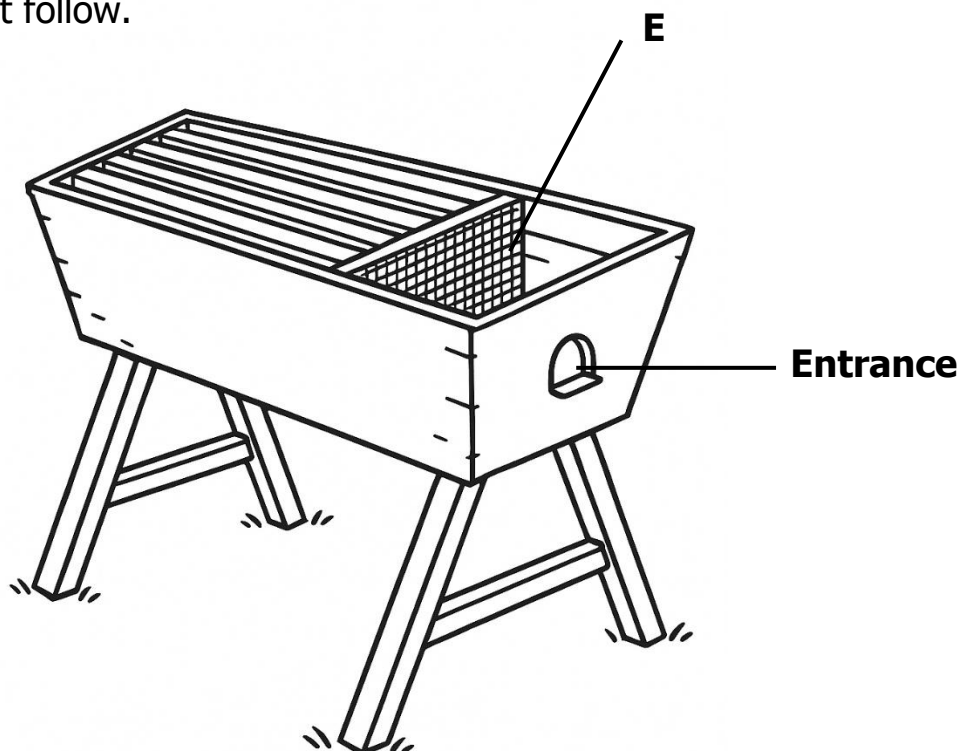
26. State the best way welders can make a rack so that utensils are not affected by rainwater splashes.
.....
27. Name the weather instrument used to measure the densities of liquids.
.....
28. Name the structure used by a passion fruit to climb jackfruit plant.
.....
29. Give a reason why car tyres wear faster on murram roads than on tarmac roads.
.....
30. Give the meaning of the term balanced diet.
.....
31. Mention the gas used in preservation of semen used during artificial insemination.
.....
32. State the importance of a squeegee in promotion of sanitation of a home.
.....
33. Give **one** way in which sound energy is similar to light energy
.....
34. Mention any **one** item used to stop petrol fire.
.....
35. State **one** cause of milk hold-up in cattle.
.....
36. State **one** way in which hooks and suckers of a tapeworm are similar in terms of their function.
.....

37. Mention the system of a flowering plant where root hairs are found.
.....
38. State the name given to the practice of replacing dead seedlings in the garden.
.....
39. Mention the class of simple machine to which the wheel barrow belongs.
.....
40. Give a reason why malaria is called a communicable disease.
.....

SECTION B: 60 MARKS

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

41. The diagram below is of a top bar hive. Study it carefully and answer the questions that follow.



- (a) Give any **one** advantage of using centrifuging method of extracting honey.
.....
- (b) Apart from centrifuging method, give any other **one** method of extracting honey.
.....

(c) Give the adaptation of the part marked **E** to its function.

.....

(d) State the importance of hanging the above hive on metallic poles.

.....

42. (a) Name the largest internal body organ.

.....

(b) State any **two** ways in which the human body works.

(i).....

(ii).....

(c) Mention **one** habit that may affect the proper functioning of the lungs.

.....

43. (a) Give the meaning of the term **food taboo**.

.....

.....

(b) State **one** disadvantage of food taboos in the community.

.....

(c) Mention **one** example of traditional customs about food.

.....

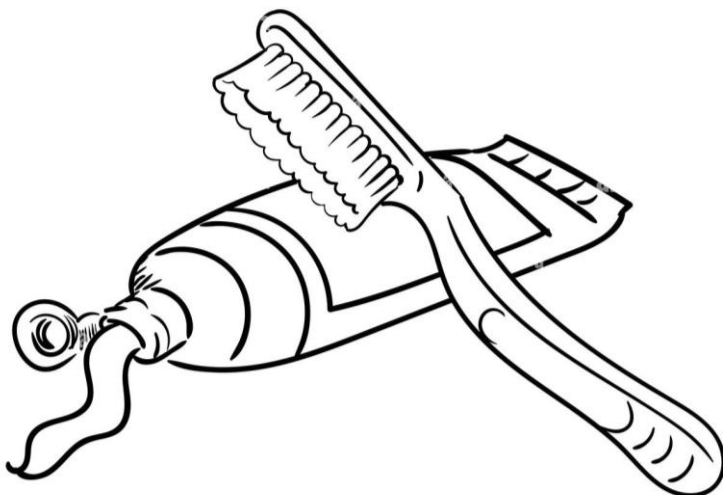
(d) Give **one** reason why weaning of babies is encouraged at the age of six months.

.....

44. Study the table below and complete it correctly.

Group of Invertebrate	Example	Mode of protection
	Freshwater snail/snail	Hides in a shell
	Millipede	Coils
Insects	Wasp	
Arachnids		Use of cob web

45. (a) Mention **one** way teachers in your school contribute to destruction of plants in the environment.
-
- (b) State **one** way in which water bodies affect the production of hydroelectricity.
-
- (c) Give any **two** advantages of using hydroelectricity for cooking.
- (i).....
- (ii).....
46. (a) Give the meaning of the term **volume** as used in sound.
-
- (b) State **one** way in which amplitude of sound waves affects the volume of sound.
-
- (c) Mention the part of the human ear that serves the same function as the amplifier of the music system.
-
- (d) State **one** importance of echoes to fishermen.
-
47. A class teacher requested pupils to come along with the items below to help them clean their teeth.



- (a) In **four** sentences, describe the instructions the teacher gave to her learners on how to clean their teeth.

.....

.....

.....

.....

48. (a) State the difference between refraction and reflection of light.

.....

.....

.....

- (b) Give the meaning of the term apparent depth.

.....

.....

- (c) Give **one** danger of refraction to people.

.....

- (d) Mention the deficiency disease that affects the eye.

.....

49. (a) Name the group of crops to which cotton belongs.

.....

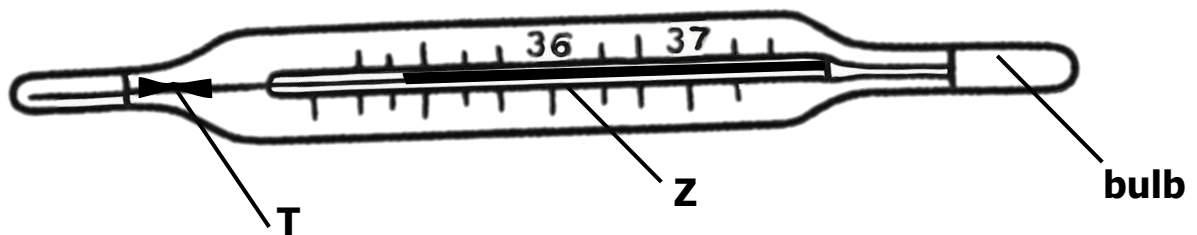
- (b) Apart from maize, give **two** other crop that belongs to the group mentioned in (a) above?

.....

- (c) Give **one** way drought affects crop production in an area.

.....

50. The diagram below is of a human brain thermometer. Study it carefully and answer questions that follow:



- (a) State the importance of part marked **T**.

.....

- (b) Mention **one** condition in humans that may make substance **Z** to move up to 40°C.

.....

- (c) Change 40°C to °F. (02 Marks)

51. Minerals salts are components of soil that occupies the greatest percentage.

- (a) State the importance of the following mineral salts in the soil:

- (i) Magnesium and iron

.....

- (ii) Calcium

.....

- (b) Mention **two** factors that influence soil erosion in an area.

(i).....

(ii).....

52. Bibian visited Nurse Olivia with a headache. She was prescribed paracetamol at a dosage of **2 × 3** and took **2** tablets at **7:00 a.m.** The medicine, which lasts for 3 years, had an expiry date of 31st August 2025.

(a) State in **one** sentence on the instruction guiding Bibian to use the medicine effectively.

.....

(b) Mention **one** importance of the above instructions to Bilson.

.....

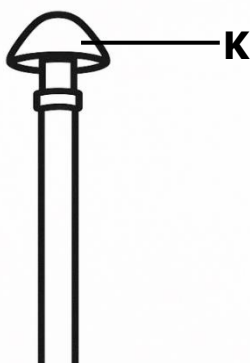
(c) State the time of the day is Bilson expected to take the second dose.

.....

(d) State the date on which the above drug was manufactured.

.....

53. The diagram below is of a part of a certain type of toilet. Use it to answer questions that follow.



(a) Name the type of latrine with the above structure.

.....

(b) State the **one** way port marked **K** helps to trap and kill houseflies.

.....

(c) State the reason why the latrine above mentioned in (a) has no lid.

.....

(d) Give any **one** disease controlled by proper use of a latrine.

.....

54. (a) Give **two** fungal diseases in both plants and animals.

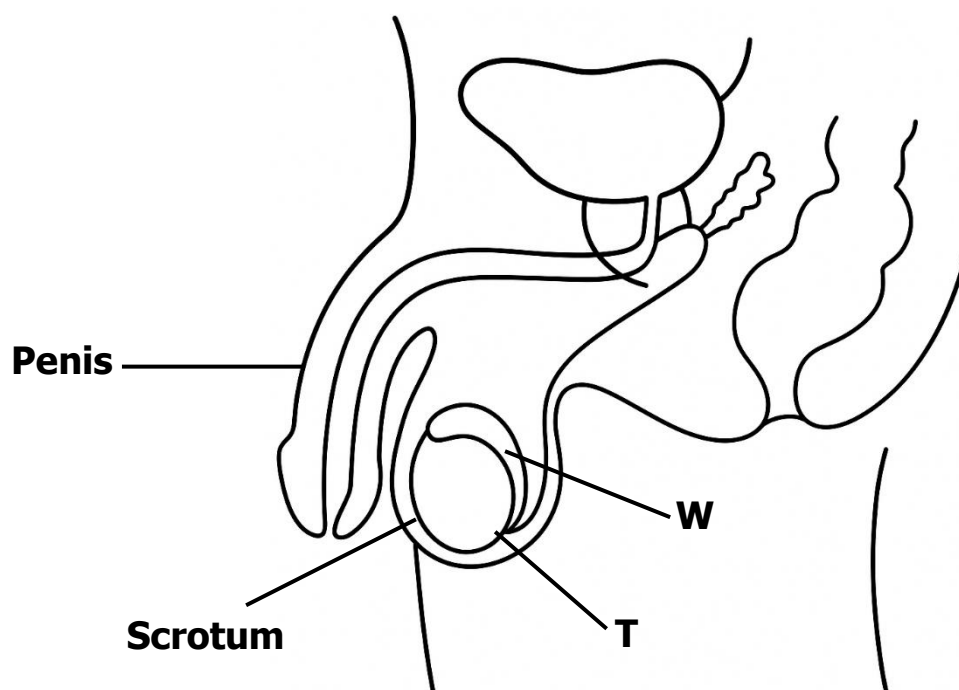
(i) Animals

.....

(ii) Plants

.....

55. The diagram below is of a male reproductive system. Study it and answer the questions that follow.



(a) Name part marked **W**.

.....

(b) State the importance of structure **T** on the diagram.

.....

(c) Mention **one** disease that makes the above male reproductive system to feel pain when urinating.

.....

(d) Give **one** way of caring for the organ above.

.....