



THE E-LEARN EXAMINATIONS BOARD

PRE-PLE SET 1 - LOWER WORK

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: 40 MARKS

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

1. State the main reason why farmers rear Light Sussex chicken.

.....

2. Give the reason why the radicle of a seed emerges first during germination.

.....

3. State the characteristic of flesh-eating mammals that makes them able to tear flesh of their preys.

.....

4. Mention **one** role of sunlight during the process of making glucose in plants.

.....

The diagram below shows a digital clinical thermometer. Study and use it to answer question **6** and **7**.



5. State **one** use of a sensor on the thermometer above.

.....

6. State **one** way how cross breeding can improve the quality of birds on a farm.

.....

7. Name the group of mammals with well-developed incisor teeth for cutting food materials rapidly.

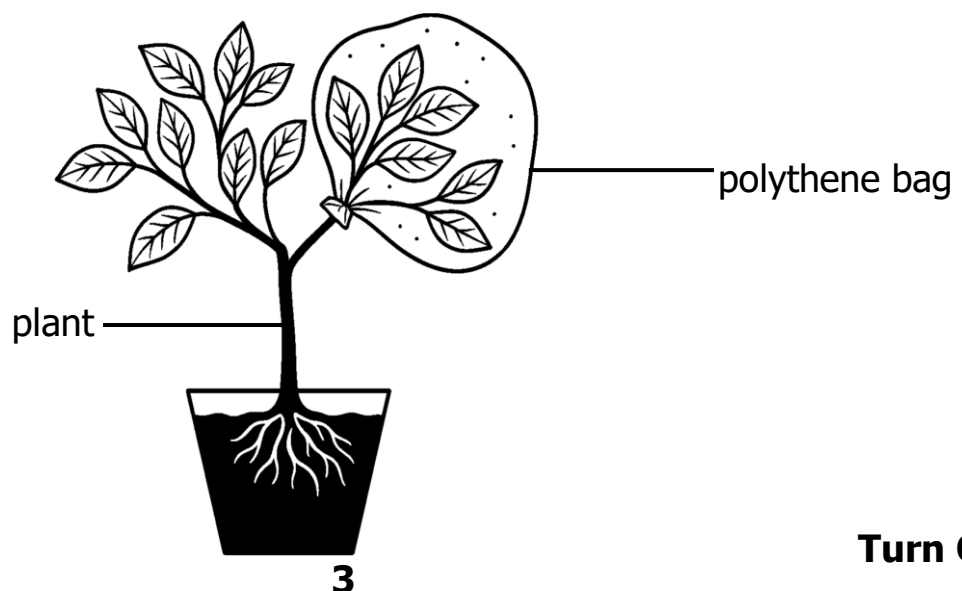
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8. State the reason why water exists in all states of matter.

.....

9. Mention the way in which the speed of wind affects the rate of transpiration.
.....
10. Give the reason why a free range system of rearing poultry is commonly used in rural areas.
.....
11. Mention the reason why burning is regarded as a chemical change.
.....
12. State the reason why egg laying mammals are called primitive mammals.
.....
13. Name the part of a pouching mammal that keeps the joey for further growth.
.....
14. State the importance of a style to a flower besides holding the stigma in position.
.....
15. Write down **one** way in which a nictitating membrane is important to birds during flight.
.....

The diagram below shows a setup of an experiment about a certain plant process study and answer question **16**



Turn Over

16. Give the reason why droplets of water appeared in the polythene bag above.

.....

17. Mention the way in which oil glands are important to the swimming bird like a duck.

.....

18. State the importance of adding sand grains in poultry feeds.

.....

19. Write **one** characteristic that makes a cassava leaf a simple.

.....

20. Name the group of birds with the foot drawn below.



.....

21. State the major characteristic of a good stem cutting ideal for propagation.

.....

22. Write the reason why the lower beak of a bird is left during debeaking.

.....

23. State the general name given to the plumule and radicle of a seed.

.....

24. Mention the reason why worker bees are regarded as sterile bees in the beehive.

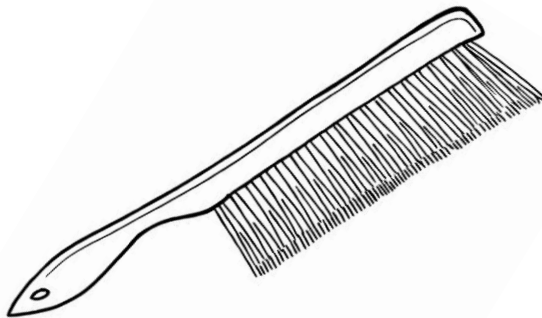
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25. Write any **one** example of garden equipment.

.....

26. Give a reason why fangs of a cobra snake are pointed backward.
.....
27. State **one** importance of preparing land during dry season.
.....
28. Write any **one** importance of studying animal classification to a P.7 candidate besides passing exams.
.....
29. Name the part of a fish that works like steering wheel of a car.
.....
30. Identify the way in which the skin of a frog is able to allow diffusion of dissolved oxygen.
.....

Below is **one** of the tools used in harvesting honey. Use it to answer question **31**



31. State the importance of the above tool during honey harvesting.
.....
32. Write the reason why gap filling should be done as soon as the seeds germinate.
.....
33. Give a reason why it is difficult to push a wheelbarrow uphill than downhill.
.....
34. Mention the way in which tapeworm feeds.
.....

35. State how tree fencing is important in agro forestry.
.....
36. Name the vaccine that is given in four doses.
.....
37. Mention the way in which timely weeding is important in crop growing.
.....
38. Give the way in which high frequency affects the highness or lowness of sounds.
.....
39. Write any **one** way in which school children can pass on the information about immunization to other people in the community.
.....
40. Apart from producing urine, give any other use of the Kidney in the body.
.....

SECTION B:

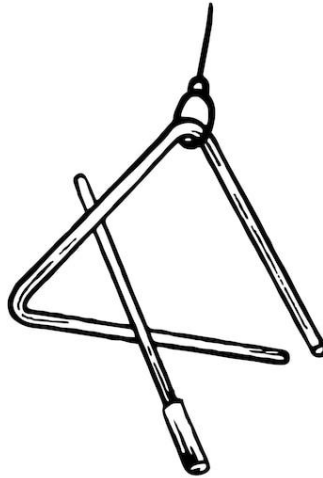
Questions **41** to **55** carry four marks each.

41. (a) Name **one** component of the environment that helps in evapotranspiration.
.....
- (b) Give any **one** negative effect of rain in the environment.
.....
- (c) Briefly explain how water bodies lead to the formation of nimbus clouds.
(02 Marks)
.....
.....
42. (a) Write **two** methods of writing music.
- (i).....
- (ii).....

- (b) Mention any **one** method of producing sound in percussion musical instrument.

.....

- (c) Why is a triangle left with the space at its base as shown below?



.....

43. (a) How is the upward and downward stroke important when brushing teeth?

.....

- (b) How is the ear cotton swab important in promoting personal hygiene?

.....

- (c) State **one** way long hair can encourage lice to infest the body.

.....

- (d) Why should sticks be chewed at **one** end before using it to clean the teeth?

.....

44. You are provided with: **salt crystals, water, container, and source of heat.**

If Emmanuella accidentally poured salt in water.

Write four procedures you would take to obtain local salt crystals.

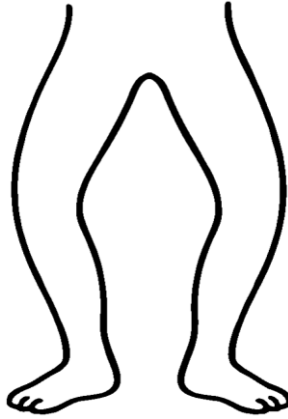
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45. Below is a diagram showing the lower part of a child suffering from a certain disease.



- (a) Name the disease the above child is suffering from.

.....

- (b) Mention the best way in which a mother for the above child can prevent such a disease.

.....

- (c) State the cause of pellagra in children.

.....

- (d) Write **one** mineral which increases the volume of blood in the body.

.....

46. (a) State the reason why sand soil is used to make glasses.

.....

- (b) State **two** features used to classify soil:

(i).....

(ii).....

- (c) Give the way in which high temperature causes weathering of rocks.

.....

47. (a) Write down a reason why it is important to know someone's pulse rate before giving first aid.

.....

- (b) Write any **one** similarity between veins and arteries besides providing a medium of blood flow.

.....

- (c) State **one** importance of blood capillaries in the body.

.....

- (d) Draw an arrow in the blood vessel below to show the blood flow that would make the valves close the blood vessel.



48. (a) Give the way in which the following activities leads to soil erosion.

- (i) Mono-cropping:

.....

- (ii) Bush burning:

.....

- (b) State the way in which contour ploughing controls soil erosion in hilly areas.

.....

- (c) Write any **one** cause of leaching.

.....

49. (a) Name the gas used in the preservation of semen used for artificial insemination.

.....

- (b) Draw the shape of a beef cattle in the space provided.

Turn Over

- (c) State the difference between steaming up and flushing as used in cattle keeping.

.....

- (d) Name the viral disease that attacks the feet of cattle

.....

50. (a) Name the germ that causes AIDS.

.....

- (b) State the reason why a person suffering from AIDS is attacked by many diseases.

.....

- (c) Mention **one** example of opportunistic diseases.

.....

- (d) Give a reason why it is easy to control AIDS than malaria.

.....

51. Complete the table below correctly

Organ	Function	Disease
	for thinking	meningitis
Ear	hearing	
Liver		cirrhosis
	churns food into chyme	peptic ulcers

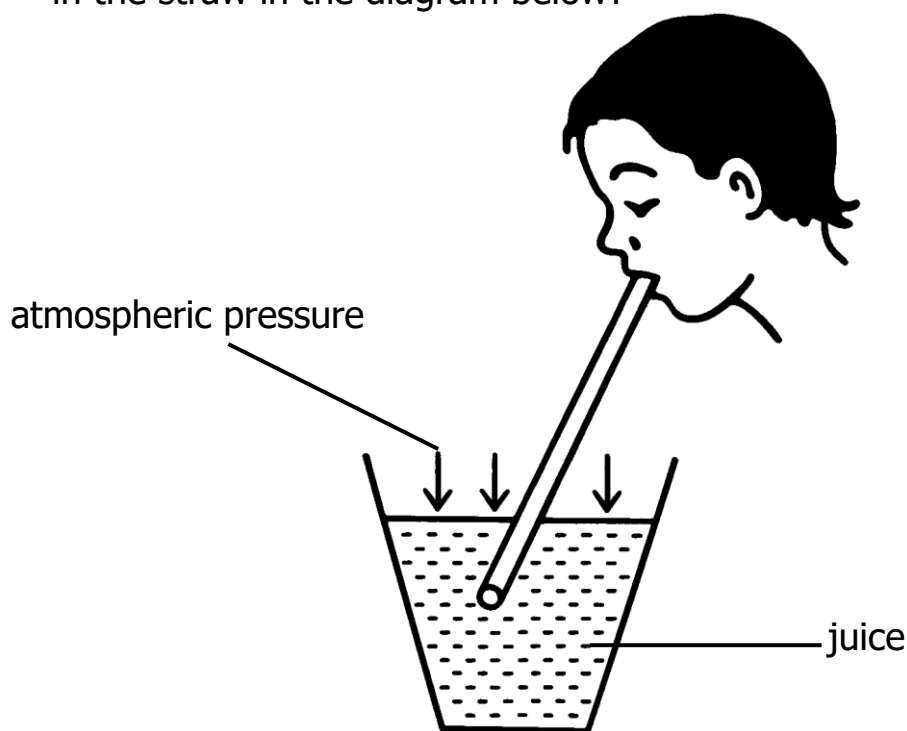
52. (a) Give the meaning of the term matter.

.....

- (b) Name the property of air illustrated the diagram below.

.....

- (c) What is the difference between the atmospheric pressure and the pressure in the straw in the diagram below?



-
- (d) Apart from drinking using a straw, how else is the above property of air applied in our day to day life.
-

53. (a) State the role of yeast in the fermentation of sugar to produce alcohol
-

- (b) Name any **one** physical change which leads to distillation process of alcohol production.
-

- (c) State **one** effect of alcoholism to the following groups of people.

- (i) Families:
-

Turn Over

(ii) Communities

.....

54. (a) Name the type of teeth missing in the milk set of teeth.

.....

(b) Compare premolars and molars in terms of size.

.....

(c) State the way in which dental braces are important in the proper alignment of teeth.

.....

(d) Give the way in which dental flosses important in promoting oral hygiene.

.....

55. (a) Write down **one** way in which a health parade promotes personal hygiene among school children.

.....

(b) Give any **one** group of people who conduct a health parade.

.....

(c) Write **one** indicator of poor personal hygiene.

.....

(d) State the importance of a pumice stone in promoting personal hygiene

.....

END