



THE E-LEARN EXAMINATIONS BOARD

PRE-PLE SET **TWO / 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: 40 MARKS

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

1. Name any **one** process of storing sound.

.....

2. State the reason why many farmers prefer rearing Angora goats.

.....

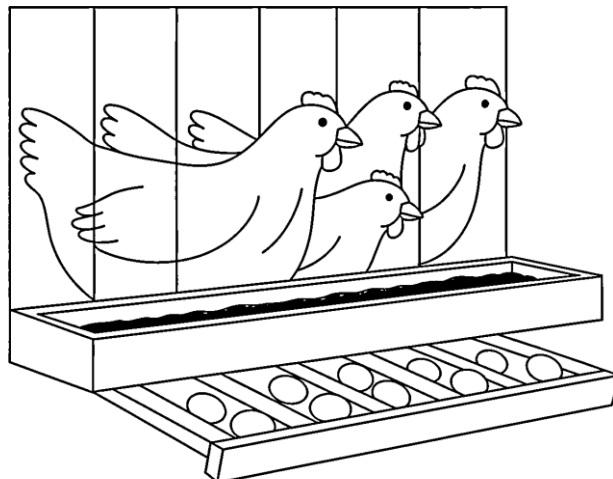
3. Give **the** factor that enables heat to travel fastest by convection in gases.

.....

4. State **the** difference between the frogspawn and toad spawn.

.....

The diagram below shows a system of keeping poultry. Study it carefully and answer questions **5** and **6**.



5. Name the system of keeping poultry shown above.

.....

6. State any **one** form of poultry vice controlled by the above system among poultry.

.....

7. Mention any **one** reason why sick people should always be fed on food rich in vitamins.

.....

8. State the function of oxygen during respiration.

.....

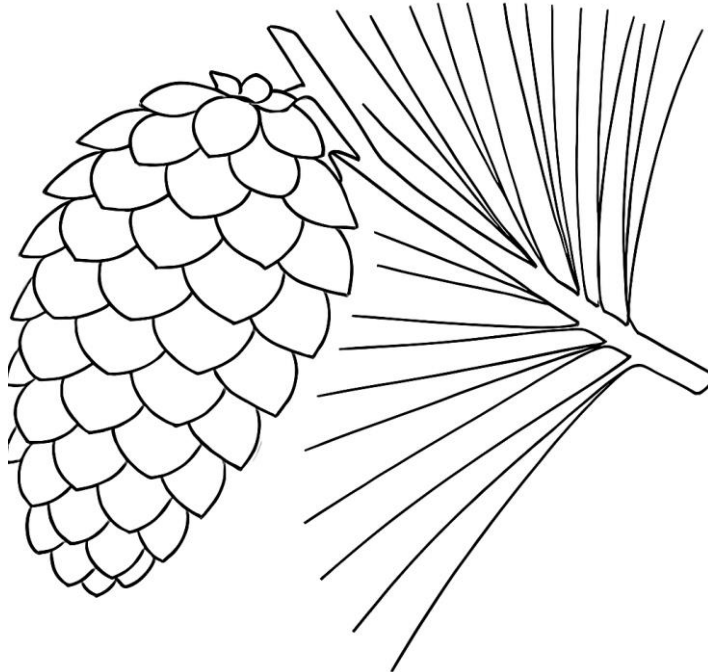
9. Give any **one** reason why patients should not buy drugs from local shops.
.....
10. Name the physical process that enables a person to obtain salt from salt solution
.....
11. State any **one** way in which third class lever machines simplify work for the users.
.....
12. Mention **one** characteristic that enables a turtle to live in water.
.....
13. Give a reason why a butterfly lays its eggs on the underside of the plant leaves.
.....
14. State any **one** way in which growing of sisal crops promotes tethering.
.....
15. Give any **one** way in which the deficiency of Vitamin B₃ affects infants
.....
16. Name the process by which smoke from burning wood spreads in the kitchen.
.....
17. Give **one** reason why cholera is regarded as a faecal disease.
.....
18. State the way in which the function of **COVID-19** messages is similar to that of PIASCY messages in the control of communicable diseases in school community.
.....
19. Mention any **one** way of harvesting minerals in the environment.
.....
20. State any **one** way in which strong cohesion affects matter.
.....

Turn Over

21. Give any **one** reason why farmers hang green leafy vegetables in poultry houses.

.....

The diagram below shows a certain kind of non-flowering plants. Use it to answer questions **22** and **23**.



22. Name the group of non-flowering plants to which the above plant belongs.

.....

23. Give any **one** similarity between the above non flowering plant and the ferns in the way they reproduce.

.....

24. Give a reason why bush fallowing is regarded as a useful practice in crop growing.

.....

25. Name the livestock raised under cuniculture for its meat or wool.

.....

26. State any **one** function of gonads in reproduction.

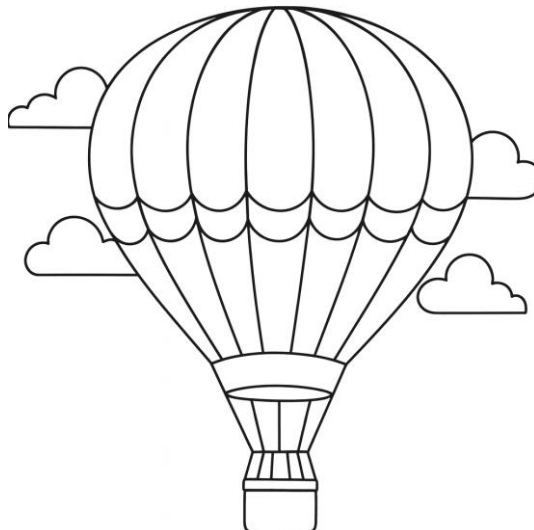
.....

27. Mention any **one** reason why the elderly people should be fed on soft food.

.....

28. Write down any **one** importance of biological changes in the environment.
.....
29. State the reason why the light ray moving from clear air to clear water bends towards the normal.
.....
30. Give any **one** danger of siltation to aquatic life.
.....
31. Mention any **one** condition that can lead to bee sting.
.....
32. State the reason why sex workers have a very high risk of getting HIV/AIDS.
.....
33. Mention any **one** effect of heat loss on matter.
.....
34. Name the part which prevents internal light reflection in the human eye.
.....
35. State any **one** way in which a woodpecker is able to make holes in trees.
.....
36. Give a reason why a skink drops its tail when touched.
.....

The diagram below shows a means of air transport that uses wind energy.
Study it carefully and answer questions **37** and **38**.



37. Name the device that uses wind energy shown above.

.....

38. Apart from the above device, give any **one** other device that uses wind energy in the environment to function

.....

39. State any **one** way in which weeds affect crops in the garden.

.....

40. Apart from inspecting dining areas regularly, name **one** other role played by a school health committee at school.

.....

SECTION B: 60 MARKS

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

41. (a) Name any **one** process of making alcohol.

.....

(b) State the importance of fungi in fermentation of alcohol.

.....

(c) Mention any **one** common myth about alcohol.

.....

(d) State the importance of a breathalyzer to the traffic police.

.....

42. (a) Name the part that a moth uses to detect scented flowers for pollination at night.

.....

(b) State what happens when pollen grains land on stigma.

.....

(c) Name the biological process that occurs in a flower after pollination.

.....

(d) Identify the way in which a passion fruit plant is adapted to cross pollination.

.....

43. The table below shows animals in various groups of vertebrates. Study it and answer questions that follow.

R	S	T	U
Tilapia	Bat	Crocodile	Newt
Nile perch	Whale	Chameleon	salamander

(a) Name the group of vertebrates to which animals in group **T** belongs.

.....

(b) Identify the way in which animals in group **S** are different from those in groups **R**, **T** and **U** in the table above.

.....

(c) Give the groups from those shown in the table above where you would put a goat.

.....

(d) Name the group of vertebrates which is not represented in the table above.

.....

44. (a) Name the infectious disease that is caused by HIV in humans

.....

(b) Mention any **two** ways of reducing the risks of HIV transmission from an infected mother to her baby.

(i).....

Turn Over

- (ii).....
- (c) Identify the element of Primary Health Care (P.H.C) which improves basic health among mothers and their new born babies.
.....
45. (a) Give a reason why pinworms cause itchy anus at night.
.....
- (b) Write down **two** signs of intestinal worms in children.
(i).....
(ii).....
- (c) State any **one** way of controlling intestinal worm infestation in children.
.....
46. (a) Give any **two** examples of primary sex characteristics in male humans.
(i).....
(ii).....
- (b) Mention any **two** ways of managing menstruation periods in female adolescents.
(i).....
(ii).....
47. (a) State the reason why hens turn their eggs regularly during natural incubation.
.....
- (b) Give any **two** reasons why natural incubation is not recommendable for commercial purposes.
(i).....
(ii).....
- (c) Mention any **one** way of caring for a broody hen.
.....
48. Match the immunizable diseases in List A below with the signs in List B respectively.

List A

- (i) Tuberculosis
- (ii) Poliomyelitis
- (iii) Pertussis
- (iv) Hepatitis B

List B

- Dark urine
- Night sweats
- Paralysis
- Runny nose

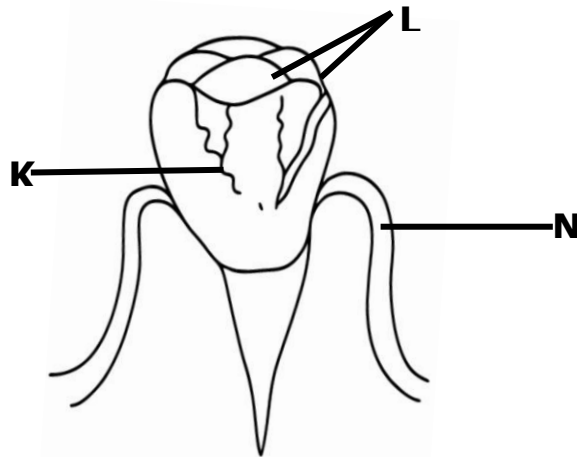
.....

.....

.....

.....

48. The diagram below shows a certain type of teeth in the permanent set of teeth. Study and use it to answer questions that follow.



- (a) Name the tooth disorder shown with letter **K**.
-
- (b) Identify the part of the tooth above that makes it suitable for chewing food.
-
- (c) Mention **one** disease that affects part shown with letter **N** on the tooth above.
-
- (d) Give any **one** way in which the tooth disorder shown with letter **K** can be prevented among humans.
-

49. (a) Besides increasing voltage, write down **two** ways of strengthening an electromagnet.
- (i).....
- (ii).....
- (b) State the reason why it is not advisable to expose a permanent magnet to heat for a long time.
-
- (c) State any **one** use of magnets in hospitals.
-

50. Study the list of organisms below and answer questions.

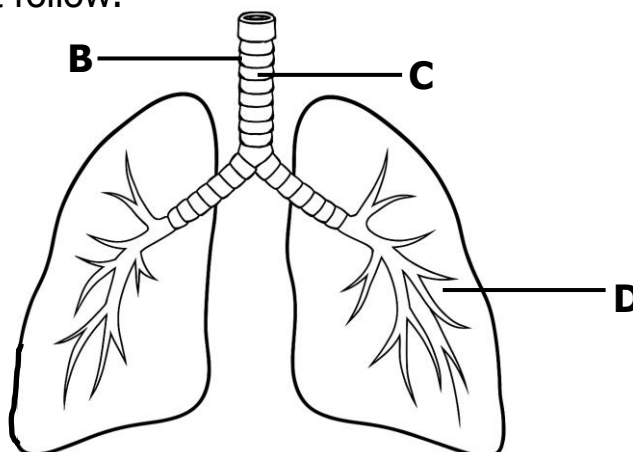
Algae

Toadstools

Mosses

- (a) Give any **one** similarity common to all the organisms above.
-
- (b) State the way in which the toadstools are different from algae and mosses in terms of feeding.
-
- (c) Name the group of plants to which algae belongs.
-
- (d) State any **one** characteristic of mosses that makes it spore bearing non flowering plant.
-

51. The diagram below shows body system of humans. Study it carefully and answer questions that follow.



- (a) Name the human body system shown above.
.....
- (b) State **one** bacterial disease that affects part shown with letter **C** whose spread can be controlled by using face masks.
.....
- (c) Identify the way in which part marked **B** is important to part shown with letter **C**.
.....
- (d) Name any **one** disease of part **D** that results from antisocial behaviour in our community.
.....

52. (a) Identify the process by what yoghurt is obtained from milk.
.....
- (b) Apart from continuous boiling, mention any one other method of milk preservation.
.....
- (c) State the condition that makes a lactometer less dense hence floating in milk.
.....
- (d) Write down **one** way of acquiring land for setting up a dairy farm.
.....

53. Jonathan grew maize crops in the same garden for six consecutive seasons.
- (a) Mention the term given to Jonathan's practice in the above crop husbandry.
.....
- (b) Write down **one** disadvantage of Jonathan's crop growing practice.
.....
- (c) State the piece of advice you would give to Jonathan's
.....

- (d) State the way in which early planting helps in the control of crop pests in Jonathan's Garden
-

54. (a) The farmer's rabbits have pale gums, rough hair, blood-stained droppings and low appetite for feeds.

Name the disease the above rabbits are likely to be suffering from.

.....

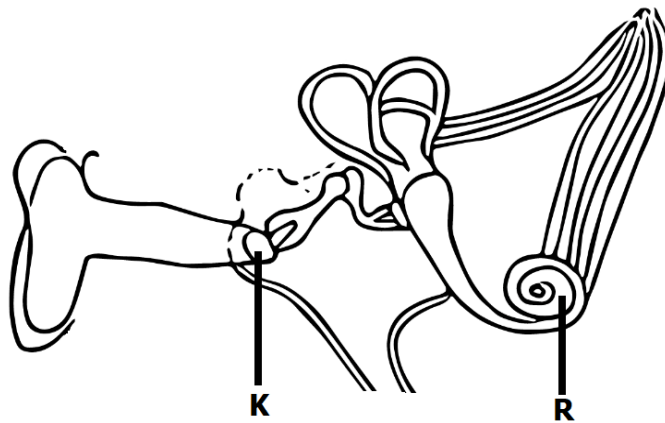
- (b) Write down **two** ways of controlling the above disease in rabbits.

(i).....

(ii).....

- (c) Besides allowing free air circulation, give **one** other reason why the rabbit hutch is made of a wire mesh.
-

55. The diagram below shows a human body organ responsible for the process of hearing in humans. Study them carefully and answer questions.



- (a) Name the **K** and **R**.

(i) **K:**

(ii) **R:**

- (b) Give the change that occurs in part **R** during the process of hearing in humans.
-

- (c) State any **one** danger of wax accumulating to the above human ear.
-