



THE E-LEARN EXAMINATIONS BOARD

NATIONAL **SPECIAL MOCK**

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** natural magnet.

.....

2. Identify any **one** way of caring for newly transplanted seedlings in the garden.

.....

3. State **one** reason as to why protecting water sources contribute to the provision of quality clean water to the community.

.....

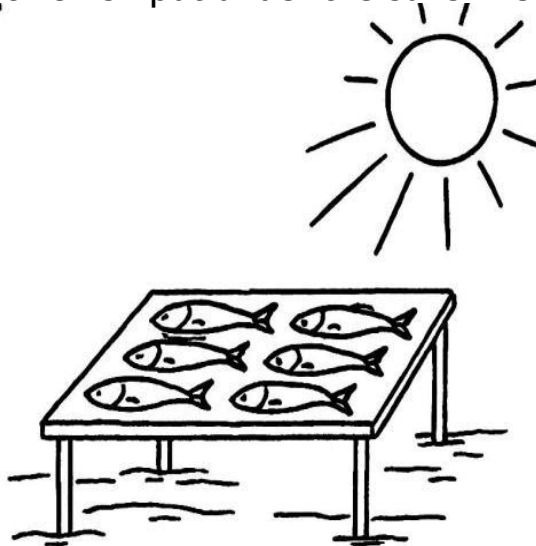
4. Give any **one** possible effect of poor disposal of wastes in the environment.

.....

5. State **one** way you can tell that a child is suffering from a deficiency of all food nutrients.

.....

The diagram below shows fish put under the sunshine to dry. Use it to answer the question **6** and **7**.




6. Name the method of heat transfer which enables the above fish to dry.

.....

7. Apart from drying fish, state **one** other way in which heat transfer by the above method is applied in daily life.

.....

8. Name the condition that speeds up the process of seed germination.
.....
9. State **one** reason why soil is usually piled and heaped around stems of tuber crops.
.....
10. Give any **one** common way of identifying blood capillaries. 
.....
11. Apart from antenatal care, give any **one** other requirement of an expectant woman.
.....
12. Give any **one** way of conserving mineral nonrenewable resources.
.....
13. Name any **one** way of identifying a leguminous crop suitable for agroforestry.
.....
14. Identify the principle on which the volume of irregularly shaped objects is found.
.....
15. Name the group of birds that cleans the environment by feeding on rotten meats (carrion).
.....

The process below is of alcohol formation. Use it to answer questions **16** and **17**.



16. State any **one** importance of yeast during the process of alcohol formation above.
.....
17. Name any **one** substance that is a source of sugars used in alcohol formation.
.....
18. State any **one** function of carbohydrates in the human body.
.....

Turn Over

19. Give the meaning of the term wildlife.

.....

20. State the type of injury that affects the tendons in the human body.

.....

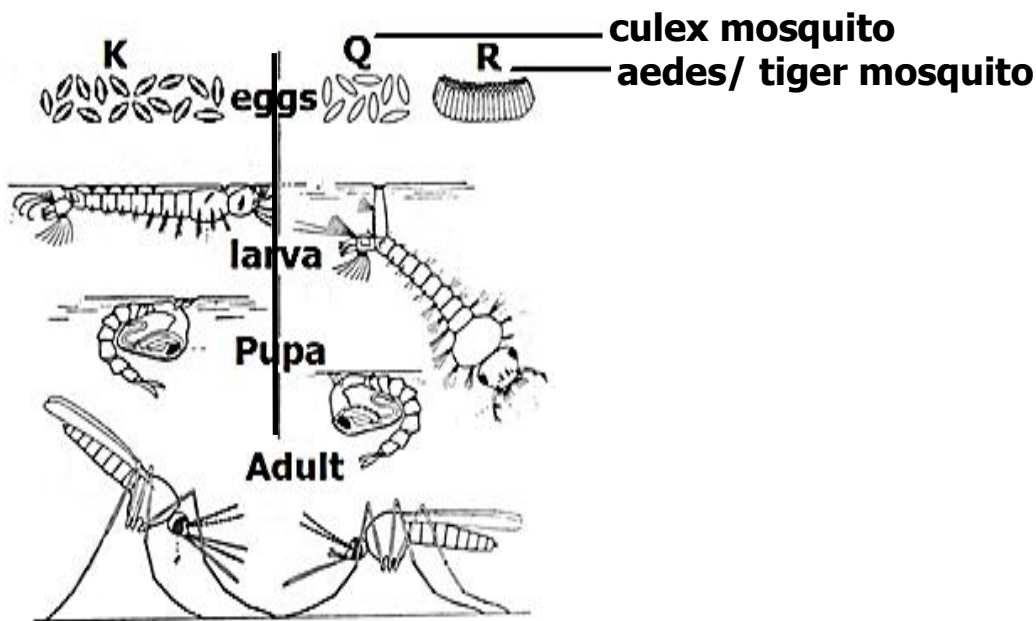
21. Give any **one** factor considered when choosing a site for nursery bed.

.....

22. State any **one** way lower temperatures at night affect sound energy.

.....

The diagram below shows lifecycle of different types of mosquitoes. Use it to answer question **23** and **24**.



23. Name the type of life cycle shown with letter **Q**.

.....

24. State any **one** reason you would classify the type of mosquito shown by letter **K** under complete life cycle.

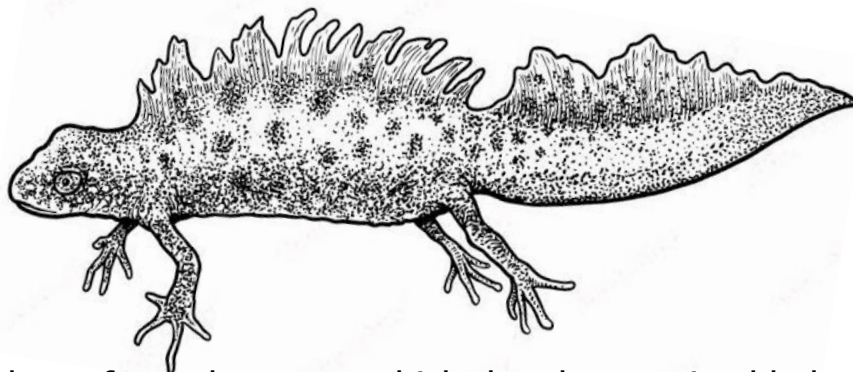
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25. Write **ACP** in full.

.....

26. Write any **one** living thing in the environment that makes pancakes to rot.
.....
27. State any **one** way in which trees benefit crops in agroforestry.
.....
28. Give a reason why wounds and cuts should be protected from bacteria invasion.
.....
29. State any **one** way in which poisoning children by chemicals can be avoided at home.
.....
30. Identify the name given to the eggs produced by lice as insects.
.....
31. Besides fermenting tobacco and wine, give any **one** other substance produced through fermentation by zymase enzyme in yeast.
.....
32. Mention any **one** characteristic of local breed of goats kept for milk production.
.....
33. Identify any **one** way of preventing teeth discoloration as a disorder of teeth.
.....

The diagram below shows a certain animal belonging to a certain group of vertebrates in the community. Use it to answer question **34** and **35**.



34. Name the class of vertebrates to which the above animal belongs.
.....

35. Apart from living in water and on land, give any **one** other common characteristic of the animals in the class of vertebrates you have mentioned in **34** above.
-
36. State **one** reason why breast milk is always said to be ready for a baby to feed on at any time without warming or cooling.
-
37. Mention the term referring to the introduction of harmful substances in food, making it unsafe for eating.
-
38. Give any **one** characteristic of a good pigsty that prevents mother pigs from crushing their piglets as they lie down in the process of suckling.
-
39. Mention the farm practice in sheep responsible for making mating easy.
-
40. State any **one** method used in encouraging bees to enter an empty hive.
-

SECTION B: 60 MARKS

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



41. (a) Give the meaning of the term **velocity ratio**.
-
- (b) State the reason why velocity ratio has no units.
-
- (c) Give **one** reason why you would choose a screw with twelve threads instead of one with ten threads when fastening wood.
-
- (d) Besides screw nails, give one other example of screws used to fasten materials.
-

42. (a) Give any **one** example of an arachnid in the environment.

.....

(b) State any **two** common ways of identifying of arachnids as arthropods.

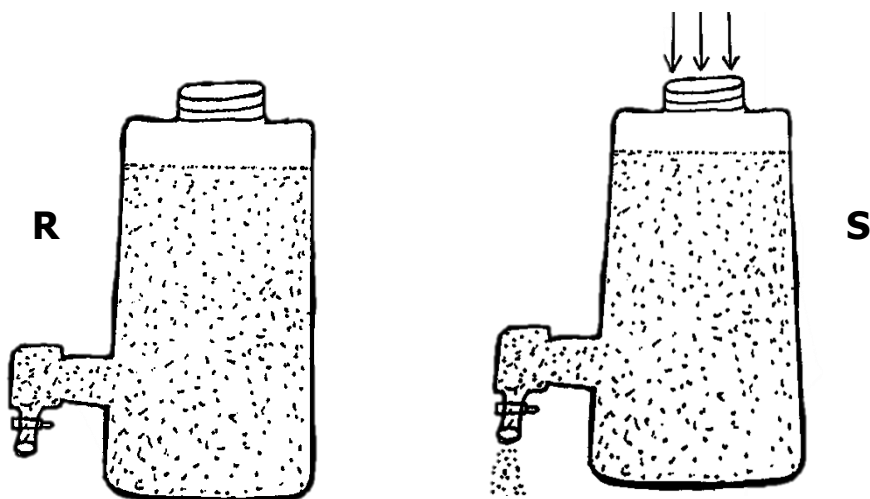
(i).....

(ii)

(c) Give any **one** way arachnids are different from crustaceans.

.....

43. The diagrams below show two water tanks **R** with closed top and **S** with unclosed top. Use them to answer questions that follow correctly.



(a) State what the arrows above on water tank **S** represent.

.....

(b) Name the property of air represented in the diagram above.

.....

(c) Give **one** reason why water tank **R** does not produce out water.

.....

(d) State any **one** way you can make water tank **R** to produce water out of its tap.

.....

44. (a) Give the meaning of the term biogas digester.



.....

Turn Over

(b) Briefly describe the process of making a biogas digester. (03 marks)

.....
.....
.....

45. (a) State **one** reason why do wading birds have long flexible necks.

.....

(b) Identify any **two** characteristics of wading birds that suit them to their mode of feeding.

(i).....

(ii)

(c) Give the way in which wading birds makes good use of their long thin legs with half webbed feet widely spread.

.....

46. Give the meaning of the following terms as used in crop growing:

(i) Perennial crops

.....

(ii) Annual crops

.....

(b) State any **one** way in which the following practices affect crops in the gardens.

(i) Planting clean seeds

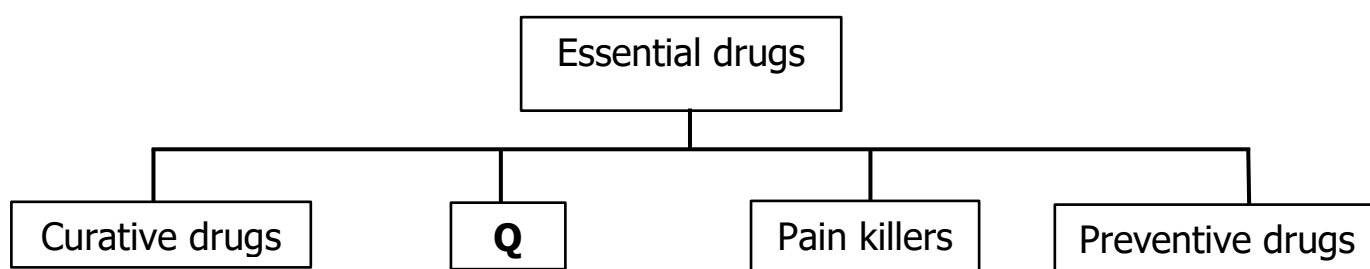
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(ii) Early planting of crops

.....

47. (a) Give any **one** example of commonly abused drugs (drugs of abuse).

.....



(b) Identify the group of essential drugs labeled with letter **Q**.

.....

(c) Give any **one** example of each of the following groups of essential drugs.

(i) Curative drugs:

.....

(ii) Preventive drugs:

.....

48. (a) Give the meaning of the term **fainting**.

.....

(b) Give any **two** conditions that may lead to fainting of humans.

(i).....

(ii)

(c) Mention the kind of first aid you can give to a fainted person.

.....

49. You are provided with the following materials; banana peelings, water, a perforated container. Briefly describe the steps taken in making local salt solution. (04 marks)

.....

.....

.....

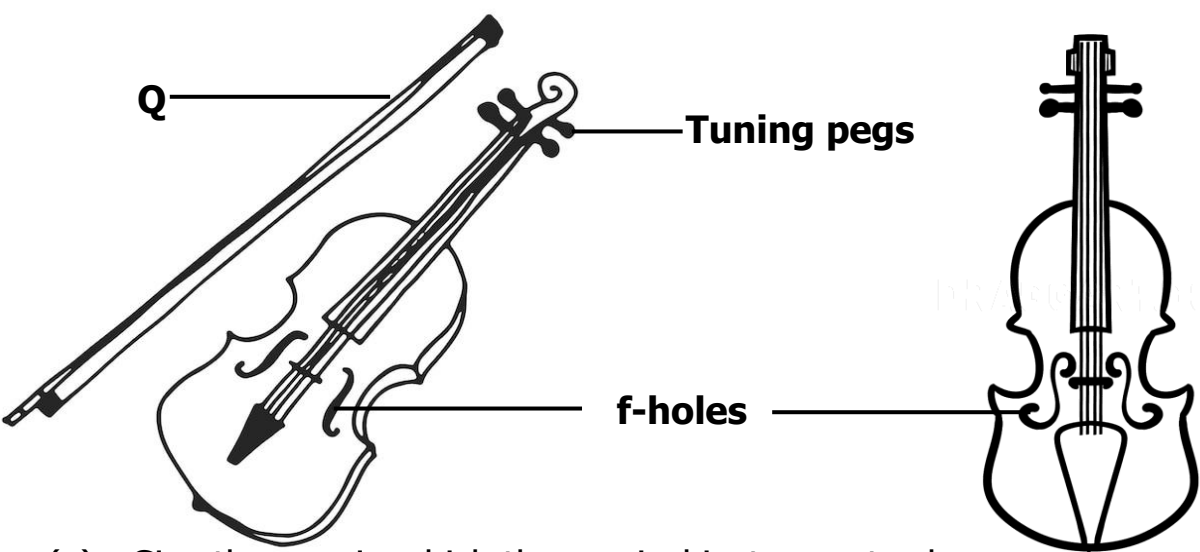
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50. Below is a diagram showing musical instruments (violins). Study them carefully to answer question that follow.



(a) Give the way in which the musical instruments above produce sound.

(b) State any **one** way in which the following parts are important in the production of sound using the violin above.

(i) Tuning pegs

(ii) Part marked **Q**

(c) Give **one** way of storing the sound produced by the violin above.

51. (a) State the purpose of painting the inside of a lens camera black.

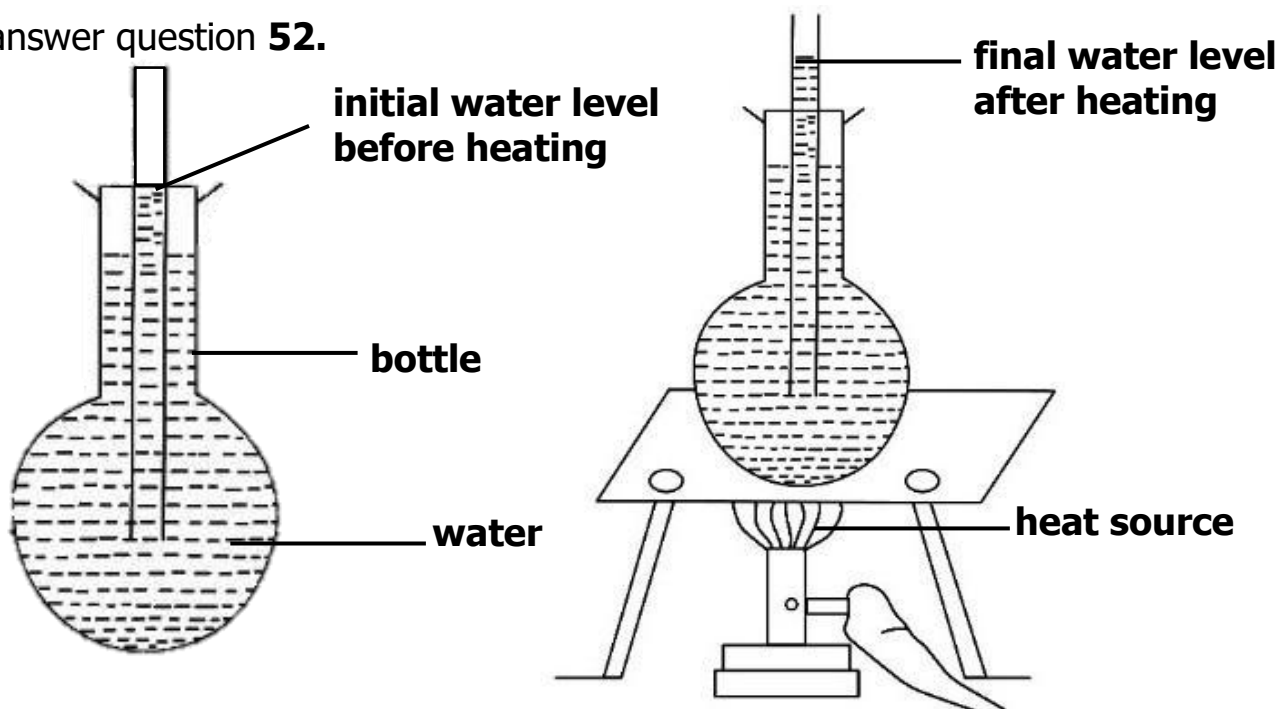
(b) Give any **one** reason why a lens camera is said to be an optical instrument.

(c) State the use of the following parts on the lens camera.

(i) Diaphragm

(ii) Focusing ring

52. The diagram shows experiment about a certain property of matter. Use it to answer question **52**.



- (a) Identify the state of matter that is being experimented above.

.....

- (b) State what the experiment above proves about the state of matter you have mentioned in 52(a) above.

.....

- (c) Write **one** reason why the liquid level in the bottle rose after heating.

.....

- (d) Besides the property shown in the diagram, give any **one** other property of the state of matter used in the experiment above.

.....

53. (a) Give any **two** examples of pouched mammals in the environment.

(i).....

(ii)

- (b) Give any **two** characteristics of pouched mammals.

(i).....

(ii)

54. (a) Give the meaning of the term **teenager**.

.....

(b) Write any **two** factors that may cause teenage pregnancies among adolescents.

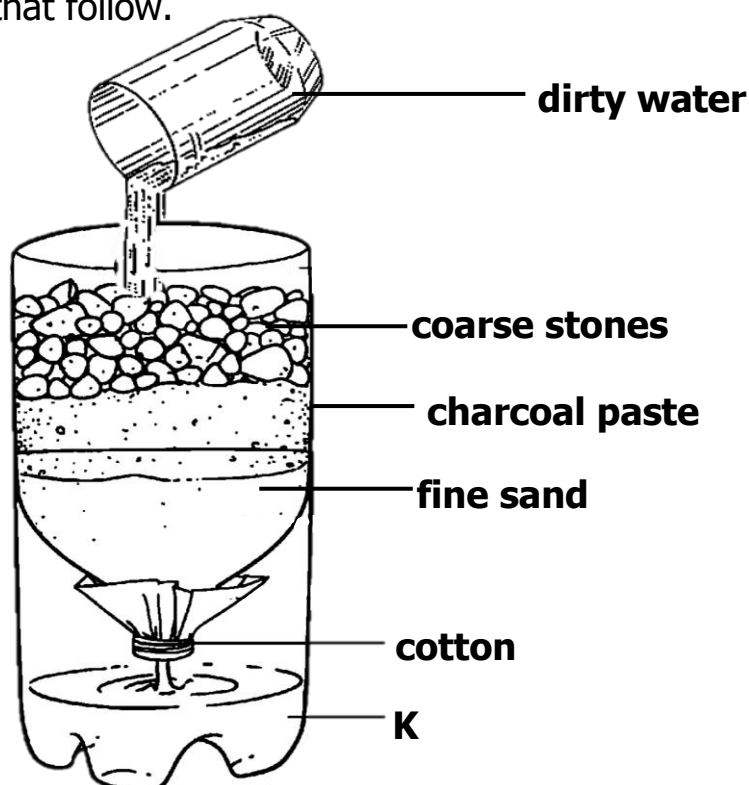
(i).....

(ii)

(c) Write any **one** piece of advice you can give to a teenager to cease them from using drugs.

.....

55. The diagram below shows filtration method of obtaining clean water. Use it to answer questions that follow.



(a) Name the substance labeled with letter **K**.

.....

(b) State any **one** use of the following substances as shown in the above method.

(i) Coarse sand and coarse stones

.....

(ii) Fine sand and cotton wool

.....

(iii) Charcoal paste



..... **END**