



PURSUIT OF EXCELLENCE EXAMINATIONS BOARD
P.7 END OT TERM I EXAMINATIONS

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

| Random No. | | | | | | Personal No. | | |
|------------|--|--|--|--|--|--------------|--|--|
| | | | | | | | | |

Candidate's Name:

Candidate's Signature:

District Id No.

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

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 | | |

SECTION A: 40 MARKS

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

1. Name the part of a fish that enables it to detect danger in water.

.....

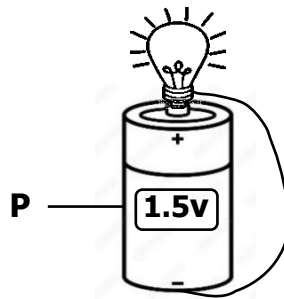
2. State any **one** reason why a casualty requires immediate first aid.

.....

3. Identify the human body system that holds other body parts together.

.....

The diagram below shows a simple circuit. Study and use it carefully to answer questions **4** and **5**.



4. Mention the form of energy stored in the device marked **P**.

.....

5. Use an arrow to show the direction of flow of electrons on the above shown circuit.

6. State the characteristic of clay soil that makes it suitable for pottery.

.....

7. In which way is the queen excluder important in a modern beehive?

.....

8. Identify the type of change that takes place when sunny weather becomes cloudy?

.....

9. State any **one** principle of Primary Health Care (PHC).

.....

10. Mention the part of the digestive system where mastication of food takes place.

.....



The diagrams below show two states of matter. Study and use them carefully to answer questions **11** and **12**.

Liquid state

Gas state

11. Use an arrow to show the change of state by evaporation on the above diagram.
12. Identify the form of energy that causes the change of state represented by the arrow in (**11**) above.
-
13. State what will happen when a male reproductive cell fuses with a female reproductive cell?
-
14. Give any **one** way in which a person can control him or herself from worm infestations.
-
15. Mention the cattle product that requires regular use of a strip cup.
-
16. Name the safety device that breaks the circuit in case of too much flow of current in an electric circuit.
-
17. State the reason why the biceps and triceps are referred to as antagonistic muscles.

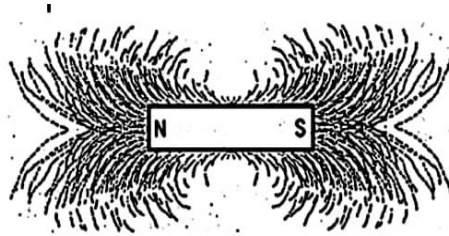
.....

.....

18. Mention any **one** condition in which breastfeeding is restricted for a mother.

.....

The diagram below shows a bar magnet with iron filings around it. Study and use it to answer the question that follow.



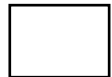
19. Which property of magnets is shown in the above shown diagram?

.....

20. Why is water referred to as a renewable resource in the environment?

.....

21. Which characteristics of mammals enables them to feed their young ones on breast milk?



.....

22. State any **one** way in which echoes can be reduced in theatres and cinema halls.

.....

23. Name the type of skeleton where an animal gets support from body fluids under pressure.

.....

24. In which way is displacement method applied in a daily life?

.....

25. Which part of the VIP latrine takes out the stale air from the pit?

.....

26. Apart from grafting, mention any **one** other artificial vegetative method of propagating plants.

.....

27. A torch uses **4** dry cells to operate, calculate the amount of voltage used by the torch?

28. Name any **one** example of a non-flowering plant that reproduces by spores.

.....

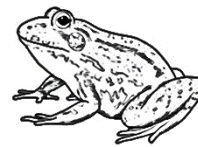
Use the diagrams of the animals below to answer questions **29** and **30**.



Rat



Fish



Toad

29. Identify the animal from above with a constant blood body temperature.

.....

30. In which way is the reproduction of all the animals shown above similar?

.....



31. Identify the element of weather that enables a farmer to separate bean seeds from the husks.

.....

32. Name the state of matter in which heat travels through vibration of its molecules.

.....

33. Identify the region of the human skeleton where the limb girdles are located.

.....

34. State any **one** way of preventing cholera apart from immunisation.

.....

35. Give any **one** way in which animals benefit from photosynthesis?

.....

36. Name any **one** root tuber that is propagated by planting the vines.

.....

37. Mention any **one** factor considered when starting a goat farm.

.....

38. What term refers to the transitional growth stage between a childhood to adulthood?

.....

39. In which way are the suture joints of the skull able to disable movement?

.....

40. State the characteristic of a black jack fruit that enables it dispersed by animals.

.....



SECTION B: 60 MARKS

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

41. (a) Give the meaning of the term thermometric liquids.

.....
.....

- (b) Mention **two** examples of thermometric liquids.

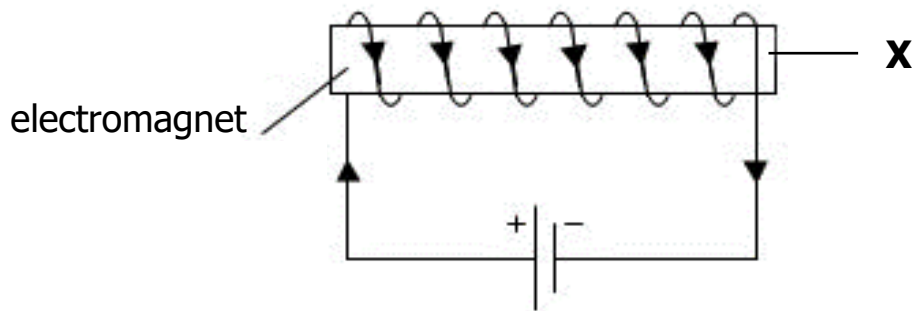
(i)

(ii)

- (b) State any **one** way in which thermometric liquids are applied in a daily life.

.....

The diagram below shows a method used in magnetisation. Study and use it carefully to answer the questions that follow.



42. (a) Mention the method of magnetisation shown above.

.....

- (b) Identify the pole of the electromagnet marked **X**.

.....

- (c) Give any **two** advantages of using electromagnets over the other kinds of magnets.

(i)

(ii)

43. (a) State the way in which the direction of blood flow in the human heart is maintained.

.....

- (b) Mention the blood vessel that carries oxygenated blood from the heart to all body parts.

.....

- (c) Give any **two** ways of maintaining the circulatory system in a good working condition.

(i)

(ii)



44. The table below shows groups of vertebrates. Study and use it carefully to answer the questions that follow.

| Group: A | Group: B | Group: C | Group: D |
|-----------------|-----------------|-----------------|-----------------|
| Gecko | Whale | Toad | King fisher |
| Chameleon | Elephant | Salamander | Kiwi |
| Anaconda | Man | Newt | Hen |

- (a) Identify the group of vertebrates in which animals in group **D** belong.

.....

- (b) Which letter represents the group of vertebrates with mammary glands?

.....

- (c) In which **one** way is the reproduction of animals in group **A** different from the one of group **C**?

.....

- (d) Mention the group of vertebrates that is missing in the above table.

.....

45. (a) What type of immunity does a child acquire through the following?

(i) Receiving polio vaccine.

.....

(ii) From the mother to unborn child through the placenta.

.....

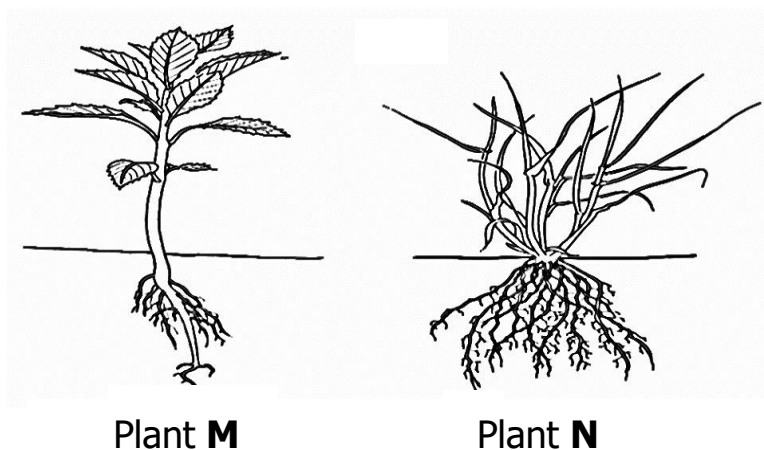
(b) In which way is the administration of oral polio vaccine different from the one of BCG vaccine?

.....

(b) State any **one** way in which immunisation is important to a child.

.....

46. The diagrams below show two plants. Study and use them carefully to answer the questions that follow.



Plant **M**

Plant **N**

(a) Name the root system of the plants marked **M** and **N**.

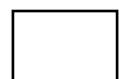
(i) Plant **M**

(ii) Plant **N**

(b) Mention any **one** example of a plant that has a root system like plant **M** and plant **N**.

(i) Plant **M**.....

(ii) Plant **N**



47. (a) Give the meaning of the following terms as used in apiculture.
- (i) Siting a hive
.....
 - (ii) Swarming
.....

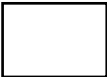
- (b) State any **two** conditions of feeding honeybees on supplementary feeds.
- (i)
 - (ii)

48. (a) Mention the human body organ that is damaged by smoking tobacco.
-
- (b) Name any **two** poisonous substances found in a burning tobacco.
- (i)
 - (ii)

- (b) State **one** lifeskill that safeguards a person from smoking tobacco.
-

49. The table below shows diseases spread by some vectors. Study and use it carefully to fill in the given blank spaces.

| Disease | Vector that spreads |
|----------|---------------------------|
| Polio | |
| | Black fly |
| Trachoma | |
| | Female anopheles mosquito |



50. (a) Give any **two** qualities of seeds that can germinate.

(i)

(ii)

(b) State any **two** farm practices which help in controlling crop pests in a garden.

(i)

(ii)

51. (a) Name any **one** cattle disease that can be prevented by dipping cattle.

.....

(b) Mention the farm structure where dipping cattle is carryout.

.....

(c) State any **one** effect caused by external parasites to cattle.

.....

(d) Apart from dipping cattle, mention any **one** other way of controlling diseases spread by external parasites to cattle.

.....

52. (a) Apart from sugar, name any **two** other solutes used in preparation of Oral Rehydration Solution (**ORS**).

(i)

(ii)

(b) In which way does sugar in (**ORS**) help to improve on the health of a dehydrated person?

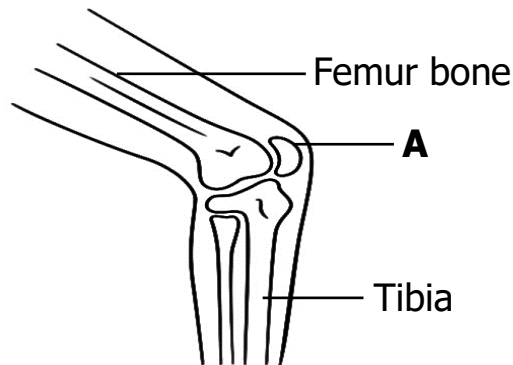
.....

- (c) Apart from taking Oral Rehydration Solution (**ORS**), state **one** other way of controlling dehydration in humans.

.....



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



53. (a) Name the bone marked with letter **A**.

.....

- (b) What type of movable joint is formed by the femur and tibia bone on the above diagram?

.....

- (c) State any **two** ways in which movable joints are adapted to friction free movement.

(i)

.....

(ii)

.....

54. (a) Give the meaning of the term poultry vices.

.....
.....

(b) Mention any **two** poultry vices developed among poultry birds.

(i)

(ii)

(c) State any **one** way of controlling poultry vices among poultry birds.

.....

55. (a) Give any **two** pieces of information found on the Child Health Card.

(i)

(ii)

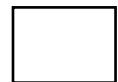
(c) State the importance of the Child Health Card to the following,

(i) Parent

.....

(ii) Doctor

.....



END