



PURSUIT OF EXCELLENCE EXAMINATIONS BOARD
END OF TERM I EXAMINATIONS

2024

PRIMARY SIX

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Pupil's Name:

Pupil's Stream:

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		
1 – 10	MARKS	EXR'S NO.
11 - 20		
21 - 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A: 40 MARKS

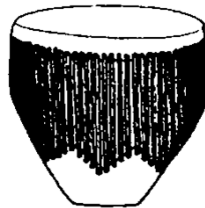
Questions **1** to **40** carry **one** mark each.

1. Name the insect vector that spreads river blindness to human beings.

2. What do we call the objects that remain on top when placed in water?

3. Mention the group of vertebrates in which a bat belongs.

The diagram below is of a musical instrument. Study and use it to answer questions **4** and **5**.



4. Name the musical instrument drawn above.

5. To which group of musical instrument does the above drawn instrument belong?

6. Why is sugarcane not regarded as a stem tuber yet it stores its food in the stem?

7. Mention any **one** exotic breed of goats kept for production of mohair.

8. State any **one** importance of conducting a school health parade.

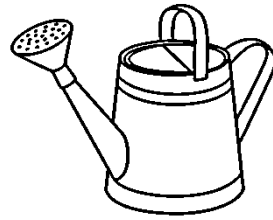
9. Name the immunisable disease that is characterized by paralysis of one's limbs.

10. Apart from protection, state any **one** other reason why a chameleon changes colour.

11. In which way is the human ear useful to a deaf person?

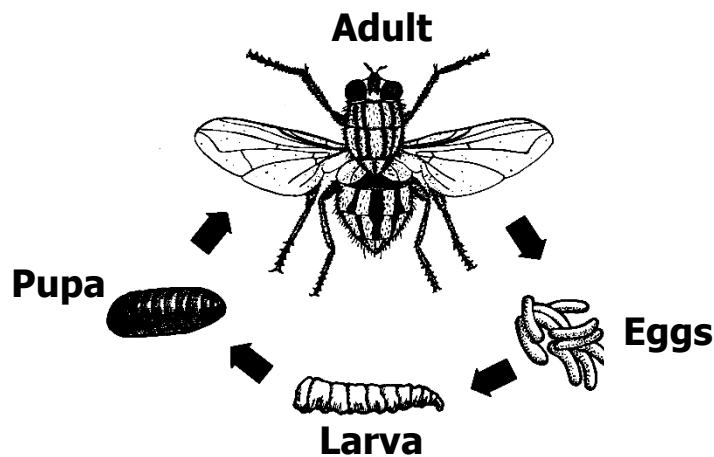
12. Identify the element of Primary Health Care (PHC) that is promoted when a person brushes teeth.
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The diagram below is of a garden tool. Study and use it carefully to answer questions **13** and **14**.



13. Name the garden tool drawn above.
-
14. State the use of the above named garden tool in crop management.
-
15. Mention the digestive juice that is produced by the stomach walls.
-
16. Which property of air enables a balloon to expand when air is blown inside it?
-
17. Apart from cobra, mention any **one** other example of a venomous snake.
-
18. Name the class of food that protects the body against diseases.
-
19. State any **one** way of controlling diseases spread by poor personal hygiene.
-
20. Mention any **one** component of soil that helps in the process of soil formation.
-
21. Identify any **one** example of drugs that lead to addiction due to prolonged use.
-
22. In which way is the feeding of a tapeworm different from that of a hookworm?
-
23. Mention any **one** example of a mollusc with a body shell for protection.
-

The diagram below shows a lifecycle of a housefly. Study and use it carefully to answer the questions **24** and **25**.

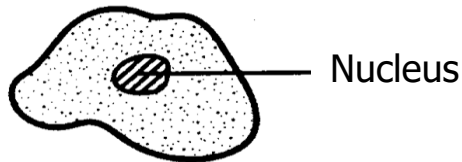


24. Identify the stage that is dormant from above.
-
25. Give any **one** other example of an insect which undergoes the above shown type of lifecycle.
-
26. Name the blood vessels that transport blood towards the human heart.
-
27. Apart from nectar, name any **one** other substance honey bees extract from plants.
-
28. Why is displacement method used to measure the volume of a stone?
-
29. State any **one** way of maintaining the human ear in a proper working condition.
-
30. Mention any **one** disease that is controlled by sleeping under treated mosquito net.
-
31. Give any **one** element of weather that enables plants to make their own food.
-
32. Mention any **one** crop growing practice that controls soil erosion.
-
33. Give the meaning of the term echo.
-
-

34. State the reason of leaving gaps between rails during construction of railway line.

35. Identify the form of accident that requires application of splints around the injured part.

Use the of the blood component below to answer questions **36** and **37**.



36. Name the blood component drawn above.

37. State the importance of the named blood component in the human body.

38. Which type of a change takes place when the larva of an insect turns into pupa?

39. Mention any **one** instrument used for measuring length.

40. Identify the type of farm record that shows the health status of birds on a farm.

SECTION B: 60 MARKS

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

41. (a) Name the special food fed on by the queen bee in a hive.

(b) Which type of bees develops from unfertilized eggs in a hive?

(c) Mention the type of female bees that are sterile and fertile in a hive.

(i) Sterile bees

(ii) Fertile bees

42. (a) What do we call the crops that grown and harvested in less than a year?

(b) Give any **two** examples of such crops mentioned in 42 (a) above.

(i) _____

(ii) _____

(c) State any **one** method of harvesting mature crops in the garden.

The diagram below shows the beak of certain bird. Study and use it carefully to answer the questions that follow.



43. (a) To which group of birds does the above drawn belong?

(b) Identify the type of food fed on by a bird with such drawn beak.

(c) In which way is the beak of the above bird adapted to its mode of feeding?

(d) Give any **one** example of a bird that belongs to the named group in 43 (a) above.

44. (a) Give the meaning of pitch as used in sound energy.

(b) Mention any **two** factors that affect the pitch of sound.

(i) _____

(ii) _____

(c) Name any **one** method of storing sound.

45. (a) State any **two** characteristics of exotic breeds of chicken.

(i) _____

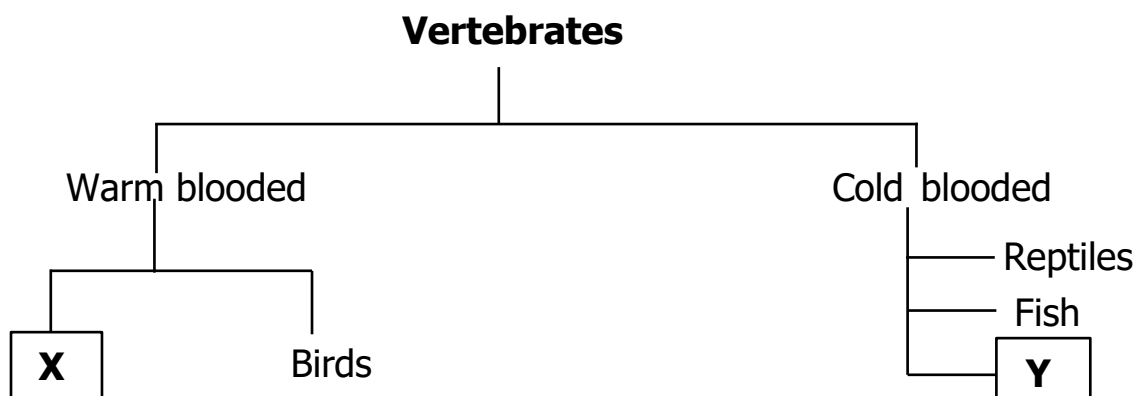
(ii) _____

(b) Give any **two** examples of exotic breed of chicken reared in Uganda.

(i) _____

(ii) _____

46. The chart below shows group of vertebrates. Study and use it carefully to answer the questions that follow.



(a) Identify the groups of vertebrates represented by letters **X** and **Y**.

(i) **X**

(ii) **Y**

(b) State any **one** way in which the reproduction of fish is similar to that of birds.

(c) Which group of vertebrates from the chart above uses gills for breathing?

47. (a) Mention any **two** examples of endoparasites of goats.

(i) _____

(ii) _____

(b) State any **two** ways of controlling endoparasites in goats.

(i) _____

(ii) _____

48. Match the changes in list **A** to their given examples in the list **B**

List A

Biological change

Physical change

Chemical change

Natural change

List B

Sunny weather turns cloudy

Hatching of an egg

Freezing of water

Fermentation

(i) Biological change _____

(ii) Physical change _____

(iii) Chemical change _____

(iii) Natural change _____

49. (a) Name the part of the clinical thermometer that prevents backward flow of mercury.

(b) Apart from mercury, name the other liquid used in thermometers.

(c) Mention any **two** parts of the human body where the clinical thermometer is inserted.

(i) _____

(ii) _____

50. (a) Give the meaning of soil profile.

(b) Name any **two** components of soil.

(i) _____

(ii) _____

(c) Which component of soil is formed by decomposition of organic matter?

51. (a) State any **two** ways in which food can get contaminated.

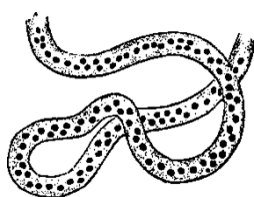
(i) _____

(ii) _____

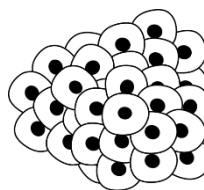
(b) Give any **one** sign that shows that cooked food is contaminated.

(c) Mention any **one** danger of eating contaminated food.

52. The diagrams below show eggs laid by two different amphibians. Study and use them carefully to answer the questions that follow.



P



Q

(a) Identify the amphibian that lays eggs as shown in **P** and **Q**.

(i) **P**

(ii) **Q**

(b) Which type of fertilisation takes place in amphibians?

(c) Give the importance of the jelly found on the eggs of amphibians.

53. (a) Mention the fungus that reproduces by budding.

(b) State any **two** ways in which fungi are regarded as harmful to humans.

(i) _____

(ii) _____

(c) Give any **one** disease that is caused by fungi to humans.

54. (a) Give the meaning of invertebrates.

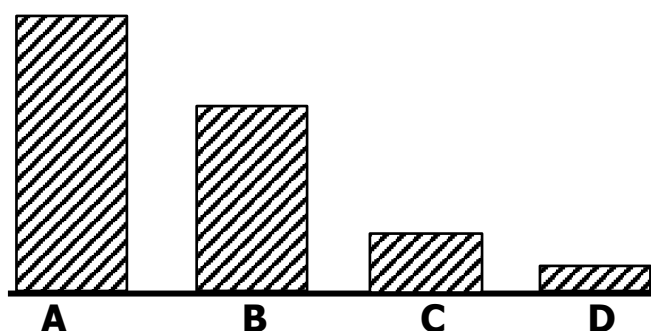
(b) Mention any **two** groups of invertebrate animals.

(i) _____

(ii) _____

(d) State any **one** reason for classifying animals.

55. The bar graph below represents the components of air. Study and use it carefully to answer the questions that follow.



(a) Identify the components of air represented by letter **A** and **C**.

(i) **A**

(ii) **C**

(b) Which letter represents the component of air used in the process of burning?

(c) State the way in which plants make use of the component of air represented by letter **D**.
