



BROAD EXAMINATIONS®

P.7 INTEGRATED SCIENCE EXAMINATION

MID – TERM II 2024

Time allowed: 2 hours 30 minutes.

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

Candidate's Name:.....

Candidate's Signature.....

District Name:

Read the following instructions carefully:

1. This paper is made up of two sections: A and B.
2. Section A has 40 questions (40 Marks)
3. Section B has 15 questions (60 Marks)
4. Answer ALL questions in both sections A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINERS' USE ONLY

| PAGES | MARKS | SIGN |
|--------|-------|------|
| Page 2 | | |
| Page 3 | | |
| Page 4 | | |
| Page 5 | | |
| Page 6 | | |
| Page 7 | | |
| Page 8 | | |
| TOTAL | | |

Teacher's comment to the learner

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Approved by:

Team Head Science Department

SECTION .A. (40 Marks)

1. Mention any one example of renewable energy resources.

2. Write down one way of managing sunny weather.

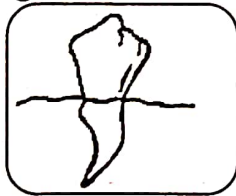
3. Suggest a reason why people should switch off electricity when not in use.

4. In which one way are fish able to live in water?

5. Give one effect of smoking on the human respiratory system.

6. Name any one tuber crop propagated by using seeds.

The diagram below shows the human tooth. Use it to answer question 7.



7. State the function of the tooth shown above.

8. Name any one excretory product removed from the human body by lungs.

9. Give a reason why bees are said to be social insects.

10. Of what importance are grips found on the handles of a bicycle?

11. What type of germination do cereals undergo?

12. How are root hairs useful to plants in the process of photosynthesis?

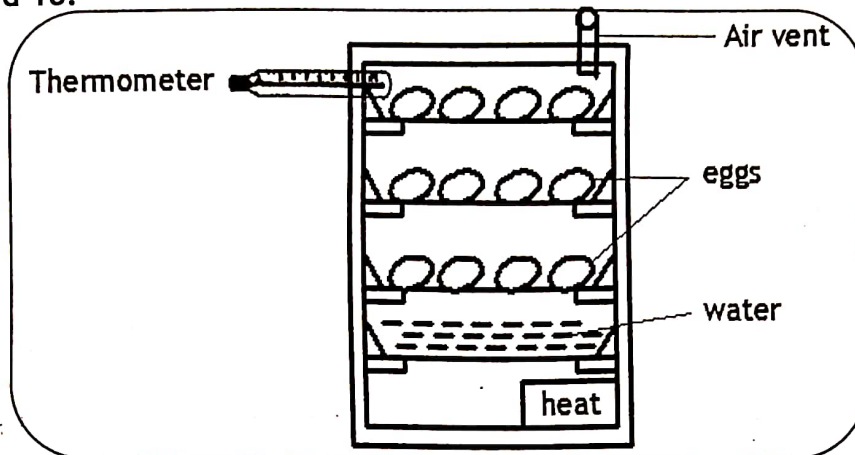
13. Mention a reason why breastmilk is regarded to be the best food for babies.

14. Mention any one plant whose seeds are dispersed by wind.

15. Name any one fungal disease that affects the skin.

16. Give any one advantage of growing crops in rows.

The diagram below shows a device found in a poultry house. Use it to answer questions 17 and 18.



17. Name the type of incubation where the above device is used.

18. Why is the above device preferred by commercial farmers?

19. In which way are suckers useful to a tapeworm?

20. Mention the digestive juice that emulsifies fats in the duodenum.

21. How are liverworts different from toadstools in the way they obtain food?

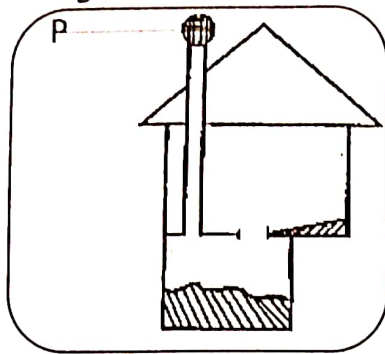
22. State the best way of controlling the spread of foot and mouth disease in cattle.

23. What advice would you give to a mother whose child is having sunken fontanelle and dry mouth lips?

24. In which one way are bacteria useful in the environment?

25. Mention any one advantage of rearing exotic breeds of rabbits.

The diagram below shows a type of pit latrine. Use it to answer questions 26 and 27.



26. How is part marked P useful on the above pit latrine?

27. Use letter Y to show the feature that makes the above pit latrine ventilated.

28. Suggest the danger of leaving garden tools outside at night.

29. Name the vector that spreads filarial worms to humans.

30. In which one way does slashing bushes around the garden reduce damages caused by rats on crops?

31. State what happens to an electromagnet when the number of turns in a solenoid are increased.

32. Mention the recommended first aid for simple fractures.

33. Why are clothes soaked before washing them?

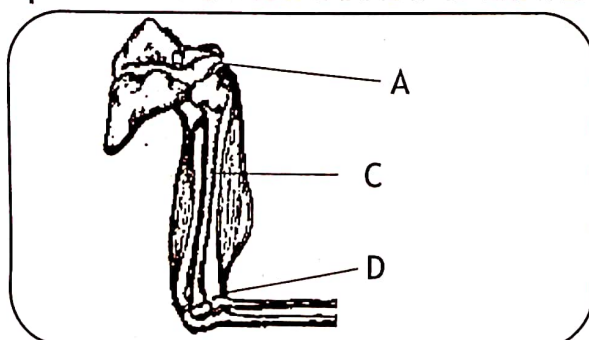
34. Give any one way of preserving milk.

35. Which force enables paraffin to move upwards in the wick in a lantern lamp?

36. Mention any one activity done under food and nutrition in promotion of PHC.

37. Of what importance is a fuse in an electric circuit?

Use the part of the skeleton below to answer questions 38 and 39.



38. Name the bone marked C.

39. Give any one difference between joints marked A and D.

40. Write any one example of wind musical instruments.

SECTION .B. (60 MARKS)

41. (a) Mention any two ways of keeping the school compound clean.

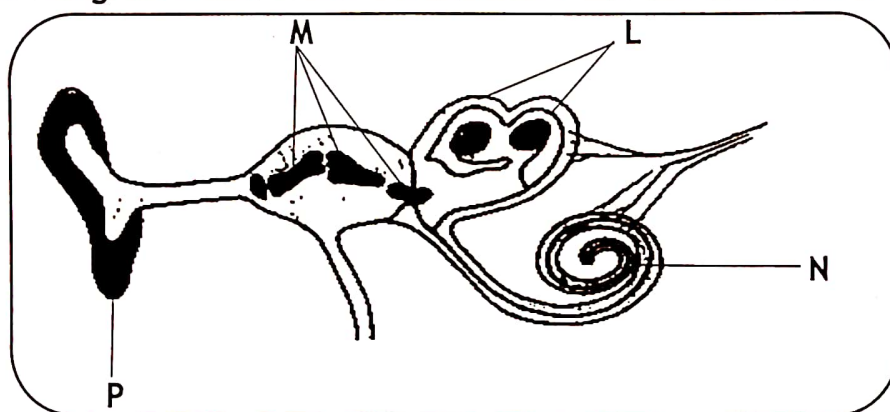
(i) _____

(ii) _____

(b) Give a reason why people are discouraged from sharing houses with animals.

(c) State the use of a rag in promotion of sanitation.

The diagram below shows a mammalian ear. Use it to answer question 42.



42. (a) Name parts marked;

(i) P _____

(ii) L _____

(b) How is Part N useful in the hearing process?

(c) What general name is given to bones marked M in the middle ear?

43. (a) Give a reason why goat keepers castrate their billy goats.

(b) Which method of castration involves the use of a sharp knife?

(c) State any two advantages of keeping goats using free range method.

(i) _____

(ii) _____

44. (a) State any one example of simple machines grouped under;

(i) wedges _____

(ii) inclined planes _____

(b) How can the effort applied on levers be reduced?

(c) How is the pivot important in the use of levers?

45. (a) Why are bats referred to as mammals?

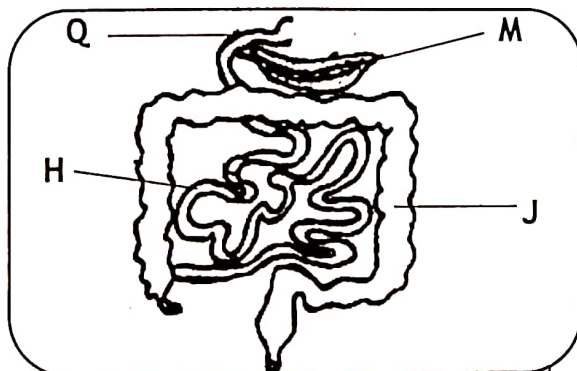
(b) In which way are bats useful in the environment?

(c) Mention any two other groups of vertebrates apart from mammals.

(i) _____

(ii) _____

The diagram below shows part of the alimentary canal. Study it carefully and answer question 46.



46. (a) Mention the class of food whose chemical digestion begins in part marked Q.

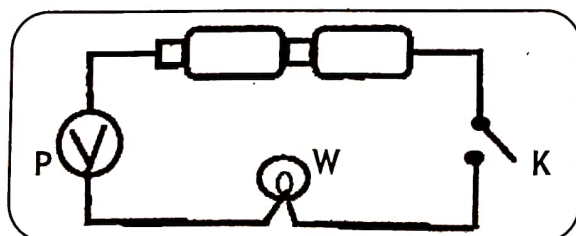
(b) State the function of part marked M during the process of digestion.

(c) State the important process that occurs in part marked J.

(d) In which one way is part H adapted to its function of absorbing digested food?

47. (a) Write down any two factors that affect the rate of transpiration.
- (i) _____
- (ii) _____
- (b) In which way can the rate of transpiration be reduced in newly planted banana suckers?
- _____
- _____
- (c) Give any one importance of transpiration to plants.
- _____
48. (a) Write down a reason why doctors encourage patients to take their drugs as prescribed.
- _____
- (b) Mention any two examples of laboratory manufactured drugs.
- (i) _____
- (ii) _____
- (c) State one danger of keeping drugs in places with direct sunlight.
- _____
49. (a) Mention any two food stuffs rich in proteins.
- (i) _____
- (ii) _____
- (b) State any one sign of protein deficiency among babies.
- _____
- (c) How best can deficiency diseases be controlled among children?
- _____
- _____

The diagram below shows an electric circuit. Use it to answer question 50.



50. (a) Name the part marked P.
- _____
- (b) State the function of part marked K in the above circuit.
- _____
- (c) Does part W produce light when part K is closed in the above circuit?
- _____
- _____
- (d) Give a reason to support your answer in (c) above.
- _____
- _____

51. (a) Write down any two signs of dehydration among babies.

(i) _____

(ii) _____

(b) How is dehydration treated locally at home?

(c) Mention any one disease that may lead to dehydration.

52. (a) State any two biological changes that take place in plants.

(i) _____

(ii) _____

(b) Give a reason why biological changes are said to be permanent changes.

(c) Which other type of changes is said to be permanent?

53. (a) Write down any one primary sex characteristic that takes place during adolescence;

(i) in boys.

(ii) girls.

(b) State any two social and emotional changes that take place in adolescents.

(i) _____

(ii) _____

54. Match the following plant parts in list A to their functions in list B.

List A

leaves

stems

flowers

roots

(i) leaves

(ii) stems

(iii) flowers

(iv) roots

List B

conduct water from roots to leaves

hold the plant firmly in the ground

carry out photosynthesis

help in reproduction

55. (a) How does heat from burning wood reach a person seated near it?

(b) State one energy change that takes place when wood burns.

(c) State any two uses of heat energy in our homes.

(i) _____

(ii) _____

END