



RAPHA EXAMINATIONS BOARD

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PRIMARY SEVEN EXAMINATIONS 2024 (SET 12) SCIENCE

Time allowed: 2 hours 15 minutes

INDEX
NO.

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CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE: DATE:

SCHOOL'S EMIS NO:

DISTRICT NAME:

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections **A** and **B**
2. All the working in both sections **A** and **B** should be shown in the spaces provided
3. All working must be done using a blue or black ball point pen or fountain pen.
Diagrams **MUST** be drawn in pencil
4. Unnecessary changes of work may lead to loss of marks
5. Any handwriting that cannot be easily read may lead to loss of marks
6. Do not fill in anything in area indicated for *examiners use only* and those inside the paper

For examiner's use only

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	

SECTION A. (40 MARKS)

1. Name the longest bone in the human skeleton.

2. Give one reason why polio is regarded as water borne disease.

3. Why are victims of second and third degree burns encouraged to drink plenty of fluids?

4. How is a screen important to a VIP latrine?

5. Name the type of life cycle common in tsetse flies.

6. Apart from blood transfusion with infected person, mention one other way through which AIDS virus is spread among people.

7. Name the form of energy that travels in sound waves through water and air.

8. How are bacteria useful to a farmer?

9. Name the vaccine given to children to protect them against tetanus.

10. Give one characteristic of living things.

Below is a diagram of a tooth. Use it to answer question 11.



11. Name the type of tooth shown in the diagram above.

12. Give one example of a natural magnet.

The diagram below shows a type of a leaf. Use it to answer the questions that follow.



13. Name the type of compound leaf shown above.

14. Apart from the type of leaf venation above, state one other type of leaf venation.

15. How does painting of garden tools help to prevent them from rusting?

16. Which component of air occupies **0.97%** of the atmosphere?

17. Which part of digestive system of a bird contains grits that helps in crushing food?

18. If the mass of a substance is **40g** and its volume is **120ml**. Find the density of the substance?

19. Write down any one value of immunization to infants.

20. Name the process of soil formation where rocks are broken down into gravel.

21. How is the propagation of a banana plant different from that of sweet potato?

22. Give one reason for soaking clothes before washing.

23. Why is it dangerous to make a person who has taken paraffin to vomit?

24. To which group of musical instrument does the guitar belong?

25. Apart from ferns and liverworts, mention one other example of a spore bearing plant.
-
26. How do white blood cells defend the body against disease causing germs?
-
27. Write down any one effect of alcohol to the family.
-

Below is a diagram of an instrument used by a bee keeper. Use it to answer question 28 and 29.

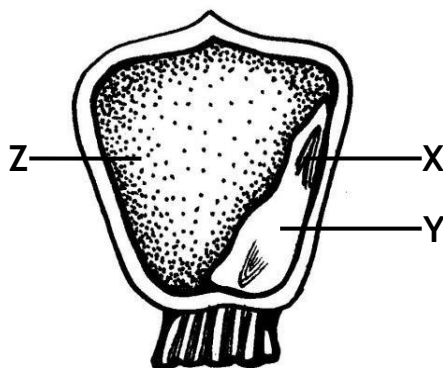


28. How useful is the above tool to a bee farmer?
-
29. What is the importance of smoker to a person harvesting honey?
-
30. Which part of a circuit breaks it in case of too much flow of current?
-
31. How does overgrazing cause soil erosion?
-
32. Mention one property of matter.
-
33. State any one importance of bats to man.
-
34. Which structures do chameleons use to capture their prey?
-
35. State the element of **Primary Health Care** which parents use to limit the number of birth of children in a family.
-
36. Name the disease in pigs that shows the following signs and symptoms: **difficulty in breathing, constipation, fever and diarrhoea stained with blood.**
-

37. Mention the part of a bean seed that allows in air and water into the seed.
-
38. Where in the lungs does the gaseous exchange take place?
-
39. Name the part of a tooth sensitive to heat and cold.
-
40. Mention one natural cause of environmental degradation.
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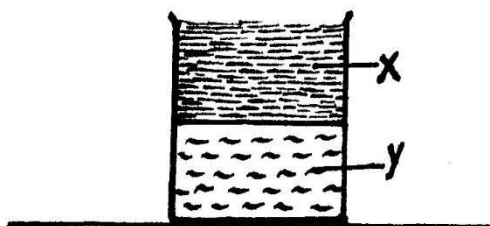
SECTION B. (60 MARKS)

41. *The diagram below shows the maize grain. Use it to answer the questions that follow.*



- (a) Name the part marked Y.
-
- (b) Which letter represents that part which acts as a granary of a maize grain?
-
- (c) Name any one scar that makes a maize grain a fruit not a seed.
-
- (d) State the method a farmer can use to preserve the above grain.
-
42. (a) In which one way are biological changes similar to chemical changes?
-
- (b) Give one example of a physical change in the environment.
-
- (c) What happens to ice when dropped in a container full of hot water?
-
- (d) Write one characteristic of a chemical change.
-
43. A P.7 class of a certain Primary school was asked to perform the experiment below about water and oil of the same amount as shown below. The substances are labeled X and Y.

P T O



(a) Name the substance marked X.

(b) Give a reason for your answer in A above.

(c) Name the substance marked Y.

(d) Give a reason to support your answer in C above.

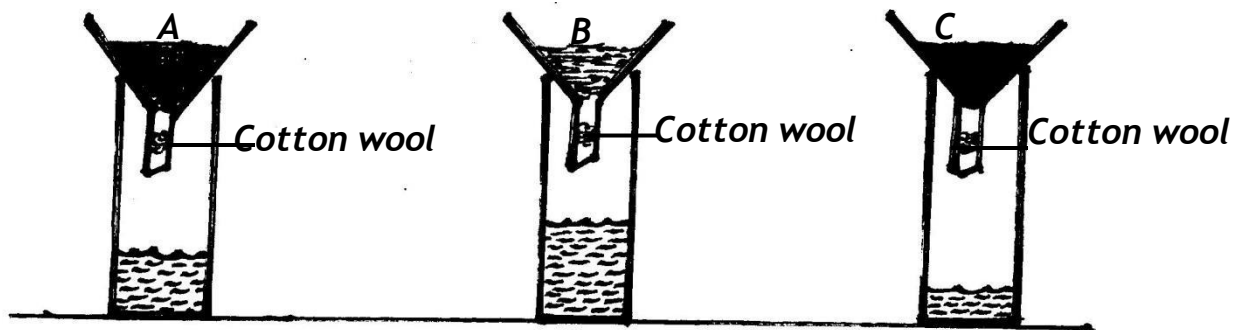
44. (a) What name is given to chemical compounds which speed up the digestion of food?

(b) Give one characteristic of enzymes in the body.

(c) How is the ileum adapted to its function of absorption of food?

(d) Name one disease that attacks the digestive system.

45. A primary seven class was asked to carry out an experiment about the types of soils. Using bottles of the same size. They added loam soils, sand soil and clay soils in the funnels containing cotton wool. They added equal amounts of water to each soil sample as shown below. Use them to answer questions that follow.



(a) Which type of soil marked by letter B?

(b) Give a reason for your answer in “a” above.

(c) State the importance of soil sample marked C.

(d) What is the use of soil marked B at home.

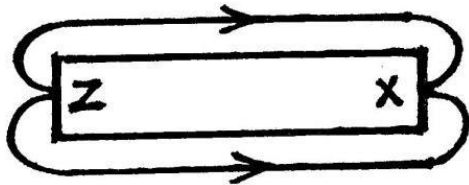
46. (a) How is the respiration of a toad different from that of a tadpole?

(b) Name the part of a fish which helps it to increase speed of movement in water.

(c) Give one example of a mollusc organism.

(d) Where does fertilization take place in fish?

47. (a) Which property of magnetism is shown in the diagram below?



(b) Name the pole of a magnet marked X.

(c) Write one way of demagnetizing a magnet.

(d) Mention one example of a magnetic substance.

48. (a) Name the blood vessel that receives oxygenated blood from the lungs.

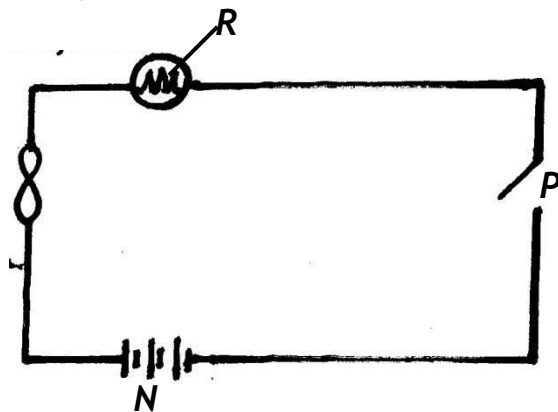
P.T.O

(b) Why does blood from the heart go to the lungs before it is circulated?

(c) How are white blood cells differ from red blood cells in their way of functioning?

(d) Name one sexually transmitted disease that attacks the white blood cells.

49. *The diagram below shows an electric circuit. Use it to answer the questions that follow.*



(a) Name part marked P.

(b) Why is part marked R coiled?

(c) What energy change takes place in part N when part P is closed?

(d) Calculate the total voltage of the circuit above.

50. (a) In the space provided below, draw the stamen of a flowering plant.

(b) Apart from the bright petals, name one other thing that attracts insects to flowers.

(c) Name the type of pollination that occurs in pawpaws and passion fruits.

(d) State the insect that pollinates flowers at night.

51. (a) How is volume different from pitch as used in sound?

(b) Give one use of sound to people.

(c) Name the part of the ear that sends sound impulses to the brain for interpretation.

(d) Give the word that refers to reflected sound.

52. (a) Mention one dangerous effect of smoking to pregnant women.

(b) Write one disease of lungs caused by smoking tobacco.

(c) State one advantage of drug prescription to a patient.

(d) Name one way through which people misuse drugs.

53. (a) Name the type of cattle kept mainly for work.

(b) Give one reason why farmers wash the udder of a cow before milking.

(c) Which instrument do cattle farmers use to detect the presence of water in milk?

(d) What are *tick borne diseases*?

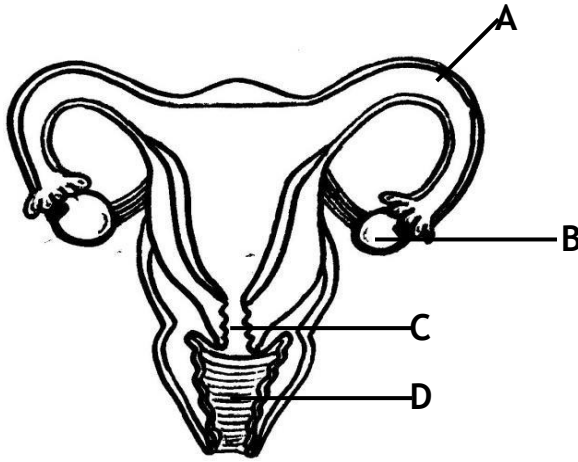
54. (a) How are animals used as resources in the environment?

(b) Name one non living renewable resource used in the generation of hydro-electricity.

(c) Name the component of air used in the preservation of soft drinks.

(d) What term refers to the mixture of two or more metals?

55. *The diagram below shows female reproductive system. Use it to answer the questions that follow.*



(a) Name the part marked D.

(b) What type of pregnancy takes place in part labeled A?

(c) State the function of part B to the above system.

(d) Write any one requirement of a pregnant woman.
