

Science

Time allowed: 2 hours 15 minutes

INDEX NO.

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SECTION A

1. Name the part of a plant that grows away from light.

2. How can one know the direction from which wind blows?

3. Suggest one way of controlling parasites in rabbits.

4. Liz loves her puppy and she sleeps with it in the same bed. Why is this a bad practice?

5. In the space below draw and name an item that can be used to maintain the general cleanliness of the body.

6. In which way can P.4 pupils differentiate a seed from a fruit?

7. Why is sugar cane called a perennial crop?

8. How is the skeleton useful to the circulatory system?

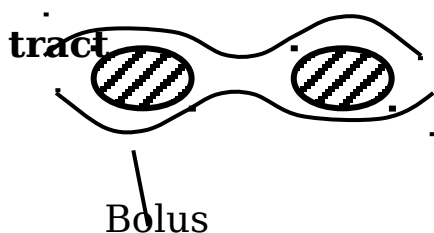
9. How are canine teeth adapted to their function?

10. Mention one way of removing hiding places for germs from the body.

11. How are fats and oils useful to the human body?

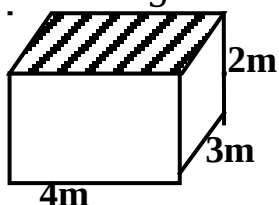
12. Mention one way of controlling diseases that spread through insect bites.
-
13. Give one disadvantage of constructing living houses near swamps.
-
14. Identify one method of separating a mixture of a liquid and solids.
-
15. How can people make use of solar energy?
-
16. In one sentence, give the meaning of soil conservation.
-
17. Which method can poultry farmers use to hatch many eggs at once?
-
18. Give one way in which a modern bee hive is better than a traditional bee hive.
-
19. Of what importance is a child health card to parents?
-

20. **The diagram below shows the movement of food in the digestive**



Which class of food aids that movement?

Study the diagram below and use it to answer question 21.



21. Find the space occupied by the above object.
-

22. Why are mushrooms called saprophytes?

-
23. In which way can houseflies be useful to people?
-
24. Mr. Lutalo found his cassava with curled leaves. Which viral disease had affected his crops?
-
25. Farmers are advised to give their piglets red anthill soil, why is it important?
-
26. Suggest one activity members in a community can participate in to solve their health problems.
-
27. The government was passing a bill of banning polythene bag use. Why would you support this bill?
-
28. Besides proper feeding, how else can one care for vulnerable groups of people?
-
29. Give one similarity between bacteria and fungi.
-
30. How does size of the object affect the pitch of sound it produces?
-
31. How is a tourniquet important in giving first aid?
-
32. Night watchmen always smoke. Why do you think they do so?
-
33. How can farmers control inbreeding on their cattle farms?
-
34. What advice can you give to a mother whose child has bleeding gums and wounds that do not heal?
-
35. It is believed that gaseous exchange in man occurs in the alveoli, how are the alveoli suited to this process?
-
36. Why should pit latrines be constructed at least 30m away from a water source?
-
37. **The diagram below shoes reproductive cells.**

A

B



What name is given to the immediate result of the fusion of the two cells above?

38. _____
Which part of a flower is similar to cell marked A?

39. _____
How is a kiss of life important to a nearly drowned person?

40. _____
Why do people switch on fans in their houses on hot days?

SECTION B

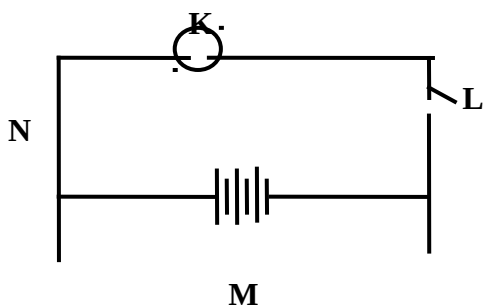
41. a) A man weighs 80kg. He sits 1.5m from the pivot of a see-saw. How far from the pivot will a boy whose weight is 30kg sit in order to balance up with the man on the see-saw. (2mks)

b) How can less effort be used on a lever?

c) Identify one way of maintaining the machines in good working conditions.

42. **Use the diagram below to answer questions that follow.**

Ω
8



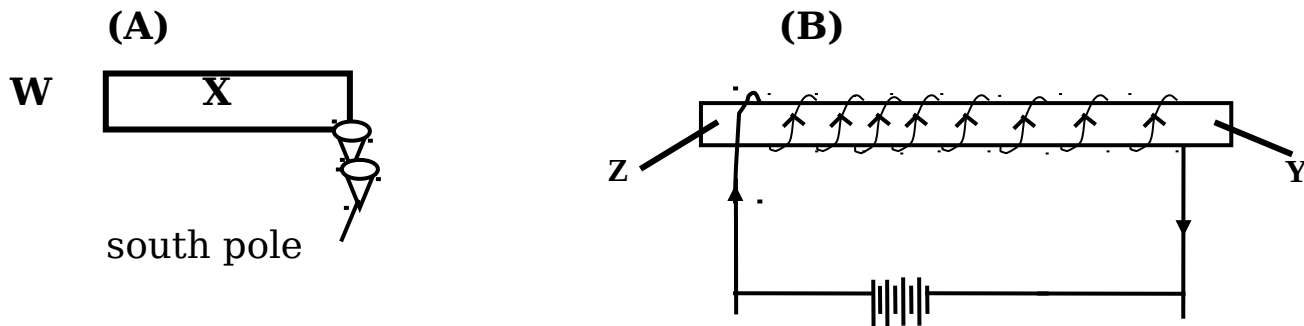
a) Name part marked L.

b) Give the function of part M.

c) How is part N adapted to its function?

d) What energy change takes place in part K when the circuit is complete?

43. **The diagram below shows methods of making magnets.**



a) Name the method of magnetisation marked A.

b Identify the poles marked with letters W and Y.

i) W _____

ii) Y _____

c) Why is iron preferred to steel during experiments when making temporary magnets?

44. a) How can one conserve resources in the environment?

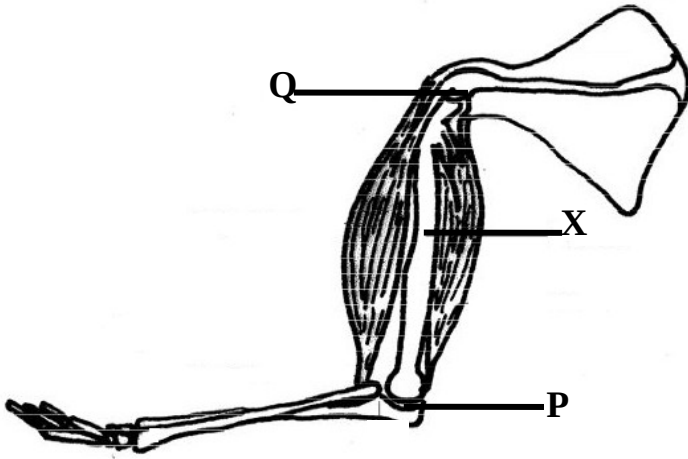
i) _____

ii) _____

b) Why is it important for people to conserve resources?

c) Mention one living component of environment that provides fuel.

45. **The diagram below shows a human arm.**



a. Name the bone marked X.

b. How is the movement of the joints at Q and P different?

c. Use letter k and an arrow to show a muscle that contracts on lifting the arm.

d. How is food rich in calcium useful to the above body part?

46. a) Why is the skin regarded as an excretory organ?

b) How does the skin regulate body temperature in;

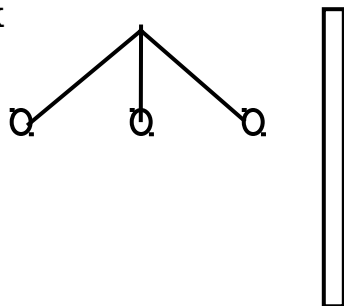
i) cold weather?

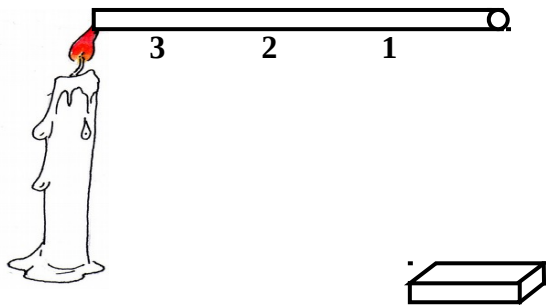
ii) hot weather?

c) Give one fungal disease of the skin.

47. **Study the diagram below and use it to answer questions that follow.**

Candle wax





a. Which candle wax melted first?

b. Give a reason for your answer.

c. By what process does heat from the candle reach candle wax 1?

d. Give one importance of the process mentioned in (c) in our daily life.

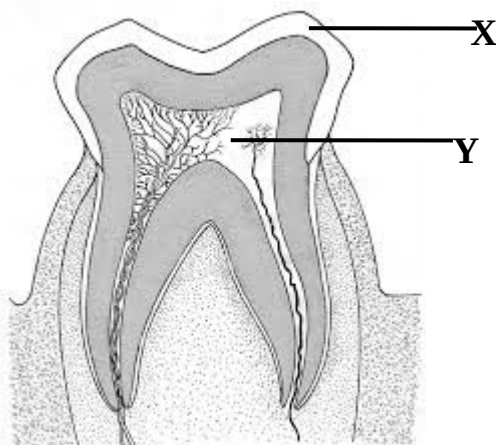
48. a) Give one importance of having a school garden.

b) One of the science oriented clubs in a school is young Farmers club. Give one activity done by the above club

c) Mention one way of caring for crops in the school garden.

d) Identify one problem that can face crops in the school garden.

49. **Study the diagram below carefully.**



a. Name the part of the tooth marked X.

b. Why does one feel pain when the hole develops up to part Y?

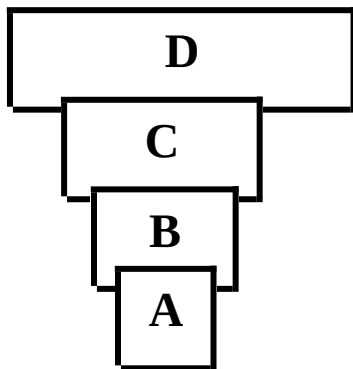
c. Of what use is the broad shape and ridges/cusps on the above tooth?

d. How can one care for his/her teeth?

50. Complete the table below carefully by filling in the blank spaces.

Plant	Mode of propagation
avocado	i) _____
ii) _____	crowns
iii) _____	bulbs
Bryophyllum	iv) _____

The diagram below shows the composition of air in the atmosphere.



a) If the bars represent the parts of air, which bar shows the part of air responsible for?

i) Respiration? _____

ii) Starch making? _____

b) How is the part of air marked A useful to a company dealing in soft drinks?

c) What percentage in air is represented by bar D?

51. Given the organism below.

8

goat, bacteria, grass, vulture

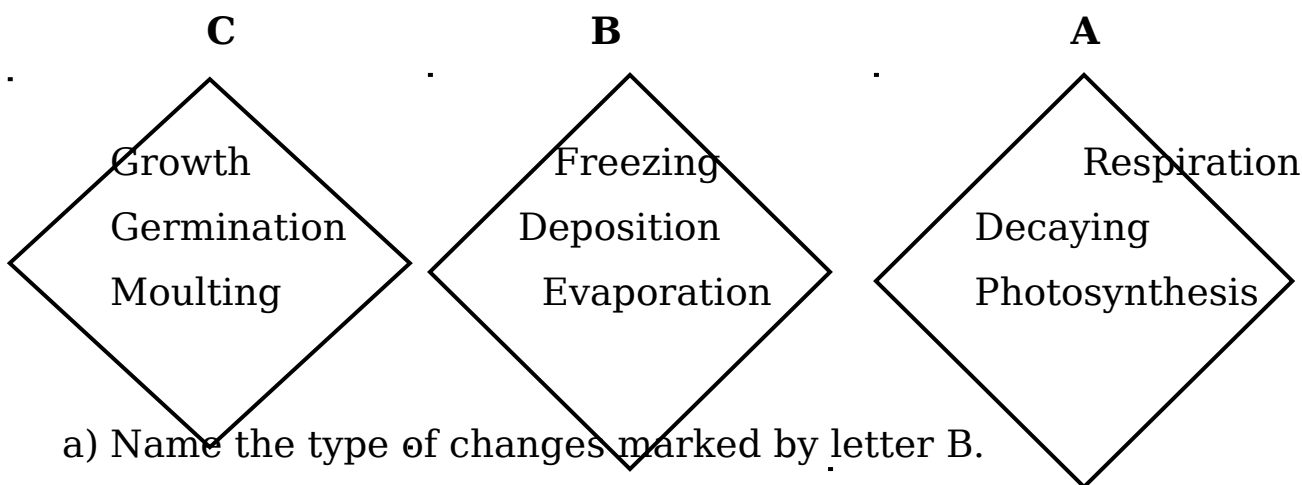
a) Arrange the organisms above to form a feeding relationship.

b) What name is given to the above relationship?

c) How are bacteria useful in the above feeding relationship?

d) In which way do vultures contribute to the cleanliness of the environment?

52. **Study the changes below and answer the questions about them**



a) Name the type of changes marked by letter B.

b) How are changes in group C and group A similar?

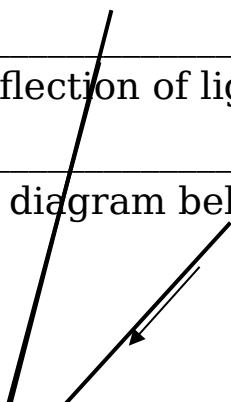
c) Identify one characteristic of changes in group B.

d) How can moulting in group C be of use to insects?

53. a) Mention one type of reflection.

b) How is reflection of light important in our daily life?

c) Study the diagram below and answer the questions about it.



- i) Complete the diagram above to obey the law of reflection.
- ii) Calculate the angle of incidence on the above diagram.

54. a) The school administration resolved in a meeting to reduce on the cost of food and wood fuel by utilizing the school garden. Which farming practice can help the school to harvest both food and wood fuel?

- b) Identify one method that can be used to harvest the wood for fuel.

- c) Why should wood for timber be dried in a shade?

- d) Mention one way of caring for trees in the school garden.

THE END