

SECTION A.

1. Name any **one** substance used to make oral rehydration solution.

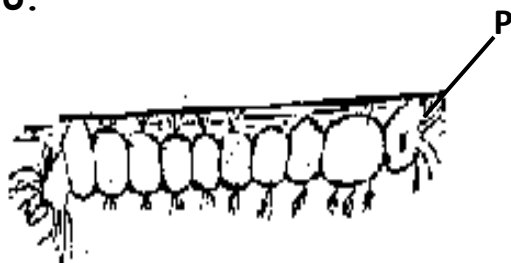
2. Why is loam soil considered by farmers as the most fertile type of soil?

3. Give any **one** way through which fish is adapted to living in water.

4. Apart from using more energy, state any **one** other disadvantage of friction.

5. Give any **one** way of reducing soil erosion in a garden.

The diagram below is of a larva stage of a mosquito. Use it to answer question 6.



6. Mention the disease which is commonly spread by the mosquito that develops from the above larva.

7. Apart from resulting in lameness, give any other effect of accidents to accident victims.

8. Name the component of air which enables a cook set fire on charcoal.

9. Karim lives near a forest. Why would you discourage him from keeping chicken using the free-range system?

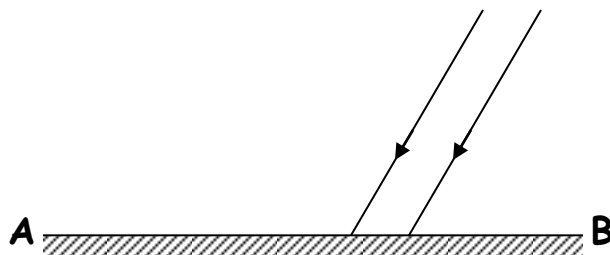
10. State any **one** disadvantage of tethering as a method of rearing cattle.

11. Besides pregnant women, mention any other group of vulnerable people.

12. Write down any **one** activity you can do to protect yourself from worm infestation.

13. How do wetlands increase the spread of malaria in an area?

14. The diagram below shows a beam of light striking the polished surface **AB**. Complete it by drawing reflected rays.



15. How is the work of a switch different from that of a fuse?

16. How can people make good use of cow dung at home?

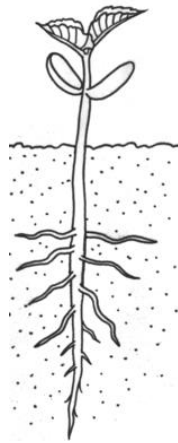
17. Besides death, state any other effect of poor feeding to people.

18. How can you help a person who has fallen into a pit latrine?

19. Give **one** way of controlling mole rats from eating cassava tubers in a garden.

20. Name the plant fibre that is used as raw material to make ropes and sacks.

The diagram below shows a germinating bean seed. Use it to answer question 21 and 22.



21. Name the type of germination shown.

22. What type of root system is shown in the seedling above?

23. Give any **one** danger of using drugs without the doctor's advice.

24. Of what importance are ventilators on a living house?

25. State any **one** adaptation of a fish to living in water.

26. Name any **one** dangerous insect in our environment.

The diagram below shows a beak of a bird. Study it and answer the question.

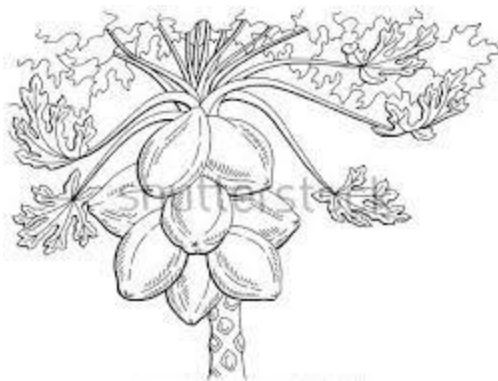


27. State the type of food commonly eaten by the birds with such a beak.

28. How is strong wind used as an energy resource in our environment?

29. Why is a spade classified as a third class lever machine?

30. To which group of vertebrates do whales belong?



31. Name the type of pollination that takes place in the above plant.

32. Give **one** way of preventing constipation in children.

33. Why does a potted plant in the living room grow towards the window?

34. Mention **one** natural disaster common in mountainous and hilly areas.

35. Why does an alcoholic cause accidents quite often?

36. In which **one** way is the ileum able to carry out absorption of food?

37. Give **one** characteristic which distinguishes insects from other arthropods.

38. Why should household refuse be disposed of properly in rubbish pits?

39. How is humus formed?

40. Why do maize plants develop prop roots at the fruiting stage?

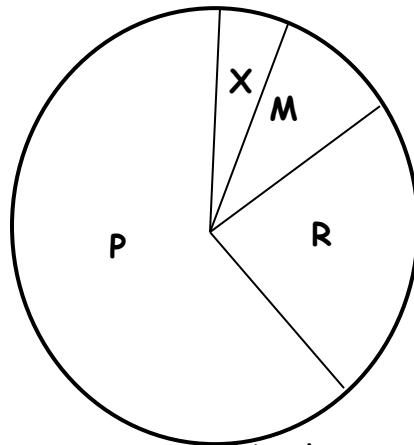
SECTION B.

41. (a) If a stone of 30 grams is immersed in water and it displaces water equal to 150cc. Find the density of the stone. (2 marks)

(b) Write down the method used in number 41(a) above.

(c) Identify any **one** object that can float on water.

42. The pie chart below shows the composition of air. Use it to answer questions 42.



(a) Name the gas represented by letters **X** and **R**.

(i) **X** _____

(ii) **R** _____

(b) How is the gas represented by **P** useful to plants?

(c) Which letter represents the gas which is commonly used in filling electric bulbs?

43. (a) Mention the process by which heat is transferred in;

(i) Space _____

(ii) Iron box _____

(b) Give a reason why water in a metallic saucepan boils faster than water in a clay pot.

- (c) Name the current that enables bad smell to escape from a VIP latrine through the Vent pipe.

44. (a) To which group of machines does a ladder belong?

- (b) Name any **two** forces that make it hard for workers when loading a lorry using a slope.

(i) _____

(ii) _____

- (c) In which way does the use of a slope to load a lorry simplify work?

45. (a) Write down the cause of each of the following deficiency diseases.

(i) Marasmus _____

(ii) Kwashiorkor _____

- (b) What advice would you give to a mother whose child shows the following signs?

(i) swollen legs, arms and belly

(ii) Very thin legs and arms and a face like that of an elderly person.

46. Complete the following table about different animals with their young ones.

Animal	Young one
Lion	_____
_____	calf
Hen	_____
_____	kid

47. When testing for starch in a green leaf, the P.4 class first boiled it in water and later put it in methylated spirit.

(a) Why is the leaf first boiled in water?

(b) Give a reason why the leaf was boiled in methylated spirit.

(c) To which colour does iodine change if it comes into contact with starch?

(d) Give any **one** raw material plants use to make starch.

48. (a) Mention the type of smoking where a baby inhales tobacco smoke.

(b) Give **two** reasons why smoking is bad to an individual.

(i) _____

(ii) _____

(c) Name any **one** harmful chemical contained in tobacco.

49. (a) What is environment?

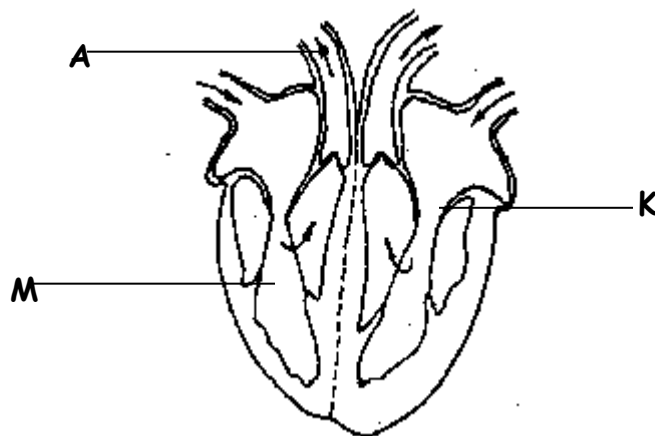
(b) Give any **two** living components of environment.

(i) _____

(ii) _____

(c) State any **one** importance of rocks in the environment.

50. The diagram below shows the human heart. Study and use it to answer questions that follow.



(a) What is the function of structure marked **K**?

(b) Name the organ to which blood in vessel **A** is taken.

(c) What type of blood is found in part marked **M**?

(d) How is the above organ important in the body?

51. (a) Name any **two** items that can be used when promoting sanitation in the school compound.

(i) _____

(ii) _____

(b) Which element of PHC is promoted when one introduces vaccines into the body?

(d) Give any **one** way of controlling the spread of malaria without using drugs or chemicals.

52. (a) Briefly give the meaning of the term metamorphosis.

(b) State **one** type of metamorphosis that insects undergo.

(c) Give any different **two** insects with the type of metamorphosis stated in (b) above.

(i) _____

(ii) _____

53. **Both mushrooms and moulds are non green organisms.**

(a) How do they obtain their food?

(b) How do mushrooms and moulds reproduce?

(c) Give any **one** use of mushrooms to people.

(d) To which group of living things do mushrooms and moulds belong?

54. (a) Give any **two** ways of keeping food safe and free from germs for a long time.

(i) _____

(ii) _____

(b) State any **two** importance of keeping food safe.

(i) _____

(ii) _____

55. (a) Write the following in full as used in sanitation

(i) VIP _____

(ii) ECOSAN _____

(b) State **one** reason why it is important for people at home to use latrines correctly.

(c) Give any **one** danger of not properly using latrines at home.

END.