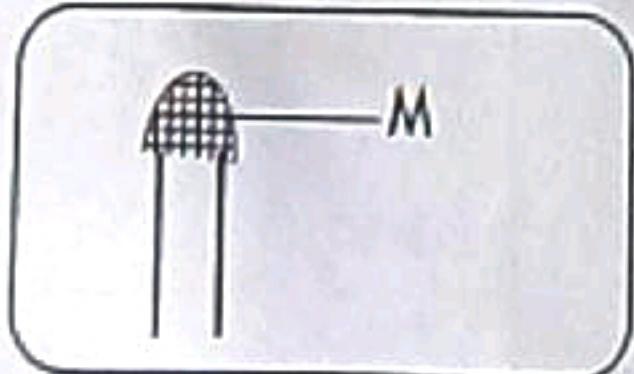


SECTION A. (40 Marks)

1. Give any one disease that affects the human skin.
2. Name the resource used to produce atomic electricity.
3. Apart from cassava, name one other root crop that is propagated from stem cuttings.
4. State any one difference between images formed by a pinhole camera and those formed by a plane mirror.
5. State any one way in which birds are adapted to flight.
6. What is produced when two uninsulated wires carrying electricity touch each other?
7. Why is it easier to push a wheelbarrow downhill than pushing it uphill?

The diagram below shows part of a VIP latrine. Study and use it to answer question 8.



8. How is part M important in the control of diarrhoeal diseases?

9. In which way does immunization boost the immunity of human beings?

10. Give any one reason why planted seeds may fail to germinate even when all conditions necessary for germination are present.

11. How does bush burning cause soil erosion?

12. Give the function of ligaments in the human skeleton.

13. Suggest one way weeding helps a crop farmer to get high crop yields.

14. Which part of the human kidney filters blood?

15. State one danger of using hard materials like plant leaves to clean yourself in water borne toilets.

16. State any one importance of observing proper personal hygiene.

17. Apart from filtration, mention any one other method we use in homes to remove solid materials from liquids like water and juices.

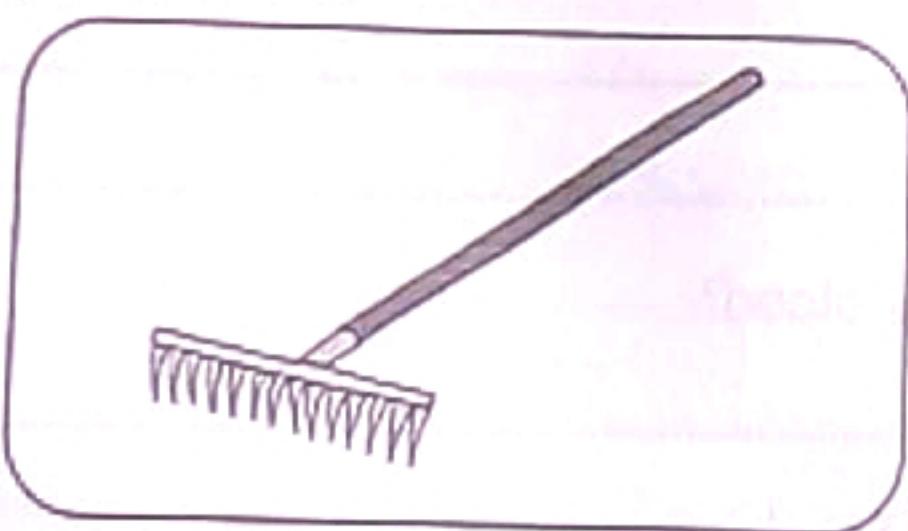
18. How are air sacs important in the human respiratory system?

19. Name the method by which heat is transferred in both liquids and gases.

20. Mention any one foodstuff you can recommend a family to feed children on to protect them against kwashiorkor.

21. How can cows on a dairy farm be serviced when on heat in absence of a bull?

The diagram below shows a tool used at school during general cleaning. Study and use it to answer question 22.



22. In which way is the above tool useful in general cleaning at school?

23. Name any one common disease of cassava plants.

24. How is the liver an important excretory organ in the human body?

25. Write down any one cause of poisoning in homes.

26. Why are moving parts of machines fitted with ball bearings?

27. In which one way is condensation an important physical change in the environment?

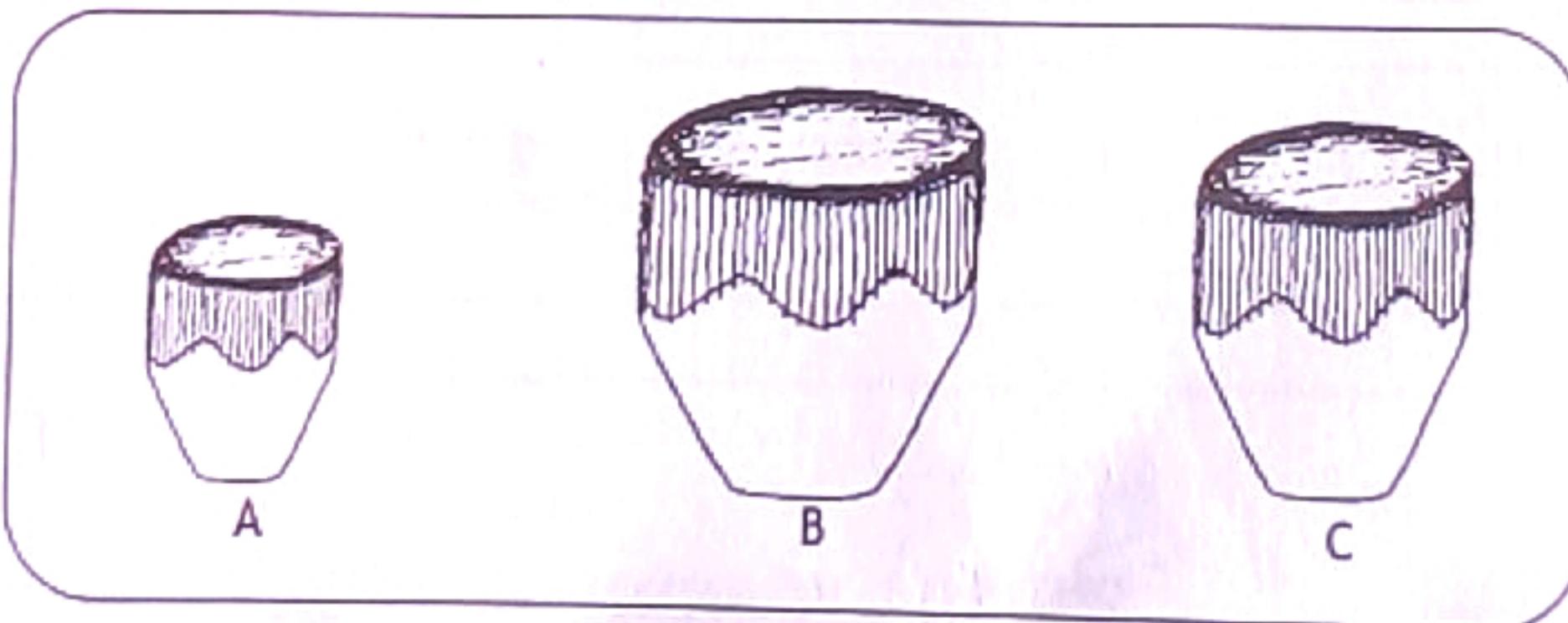
28. Give one danger of opening soda bottles using teeth.

29. Why should a parent carry a child health card every time he/she takes the baby for immunisation?

30. State one way gonorrhoea increases chances of contracting HIV/AIDS among people.



The diagrams below show three drums. Study and use them to answer question 31.



31. Which of the three drums above produces the highest pitch of sound?

32. State the mode of feeding of common fungi like mushrooms and toadstools.

33. Apart from pollarding, give one other recommended method for harvesting trees under agroforestry management.

34. How does brick making increase the spread of malaria in an area?

35. Give one way yeast is important in production of local brew.

36. Name the communicable intestinal disease that has a sign of blood stained diarrhoea.

37. Write one secondary sex change that occurs in both boys and girls.

38. Give one similarity between biological and chemical changes.

39. Write down any one effect of poor disposal of plastic materials in the environment.

40. What name is given to the practice by which woollen fleece of sheep is cut off?

SECTION .B. (60 Marks)

41. (a) Mention two principles of Primary Health Care (PHC).

(i)

(ii)

(b) Write two activities done by a school health committee in promotion of PHC.

(i)

(ii)

42. The table below shows components of blood. Study and complete it carefully.

Component of blood	Function
	Help in blood clotting.
Red blood cells	
White blood cells	Transports dissolved substances such as digested food.

43. (a) Why should a rabbit hutch be built with a wire mesh?

.....

(b) In which way is dampness controlled in rabbit hutches?

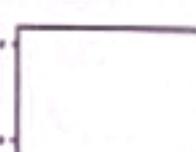
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(c) Give a reason why commercial farmers prefer keeping exotic breeds of rabbits.

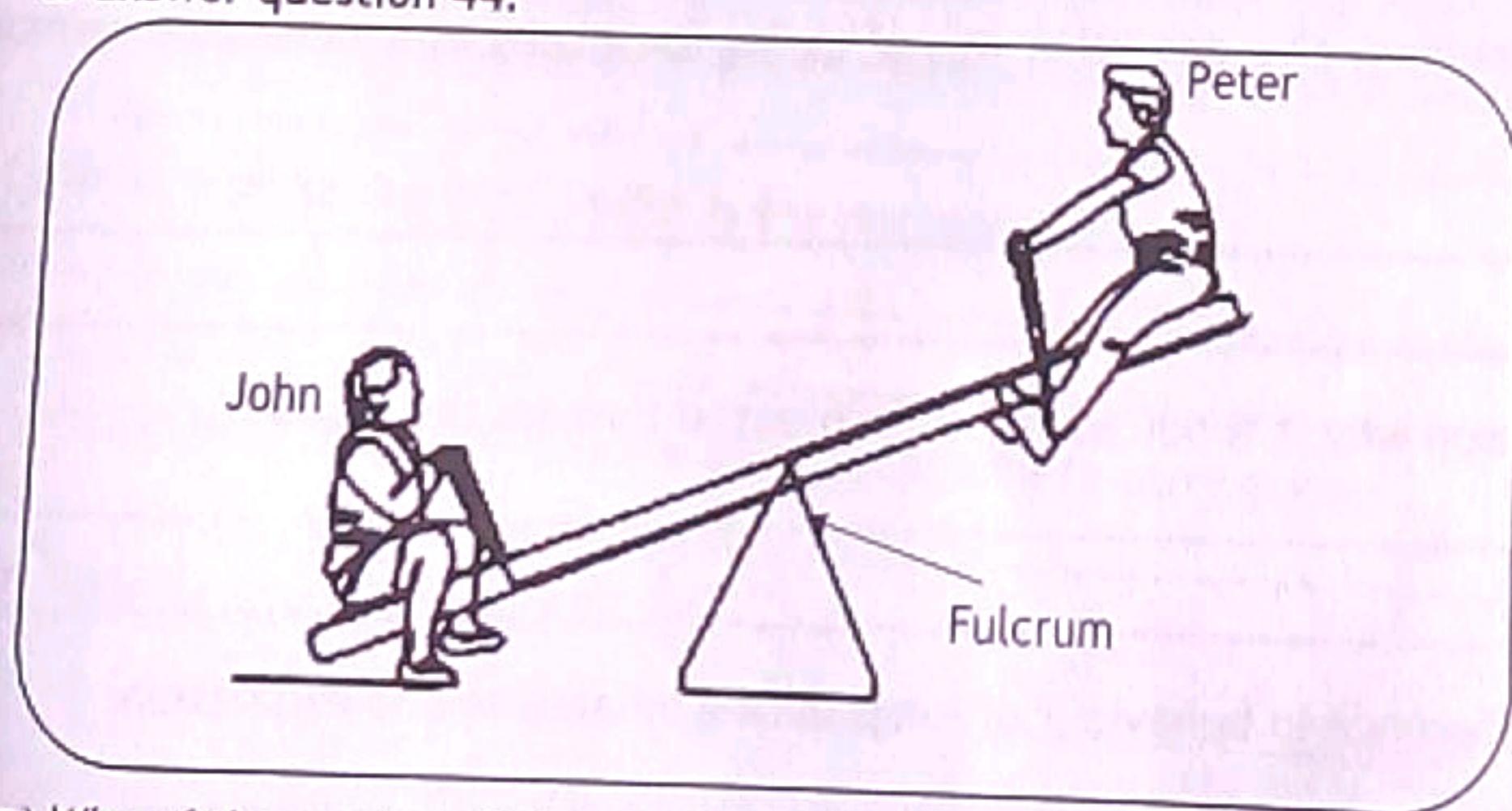
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(d) Why should a rabbit hutch be located far away from the poultry house?

.....



The diagram below shows two boys playing on a see saw. Study it carefully and use it to answer question 44.



44. (a) Who of the two boys is heavier?

.....

(b) State the reason for your answer in (a) above.

(c) If John weighs 40kg and is seated 3metres from the fulcrum, how far from the fulcrum should Peter who weighs 30kg sit in order for the two to balance?

(d) In which class of levers is a see-saw?

45. (a) Write down any two advantages of breastfeeding to a baby.

(i)

(ii)

(b) Give any one condition that can force a mother to use bottle feeding.

47. (a)

(c) Apart from feeding, give one other way of caring for a baby as a vulnerable member of the family.

(b)

46. (a) Give one reason why it is not advisable to breathe through the mouth.

(d)

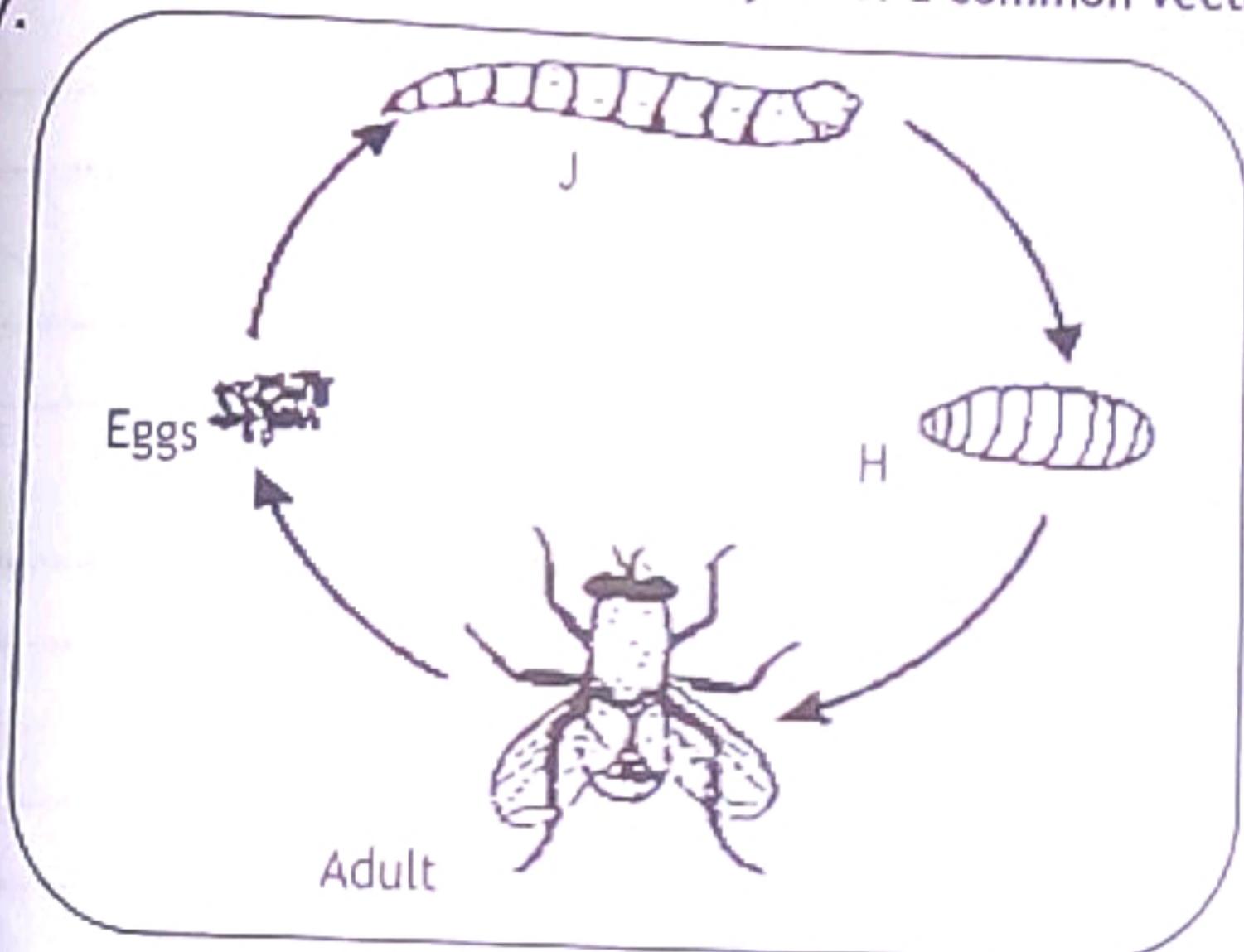
(b) State the difference in behaviour of lungs during inhalation and exhalation.

48. (a)

(c) Why does a person involved in vigorous physical exercises breathe faster than normal?

(d) What name is given to the process that generates energy for the human body?

The diagram below shows the lifecycle of a common vector. Use it to answer question 47.



47.(a) Name the vector whose life cycle is shown above.

(b) What scientific name is given to stage in the lifecycle of the above vector marked J?

(c) How is stage marked J useful in the environment?

(d) What body feature makes the adult stage able to carry germs?

48.(a) Mention any two types of twins.

(i).....

(ii).....

(b) In which part of the female reproductive system does fertilization take place?

(c) Give any one reason why pregnant mothers should go for regular antenatal care.

51. (a)

49. (a) Mention the two raw materials used by plants to make food.

(i).....

(ii).....

(b) What do we call the process by which plants make food?

(i)

(ii)

(b)

(c) How is chlorophyll important in the process you have named above?

52. (a)

50. (a) State one way a mushroom is similar to a moss plant.

(b) Write down two plants that belong to the same group as moss plants.

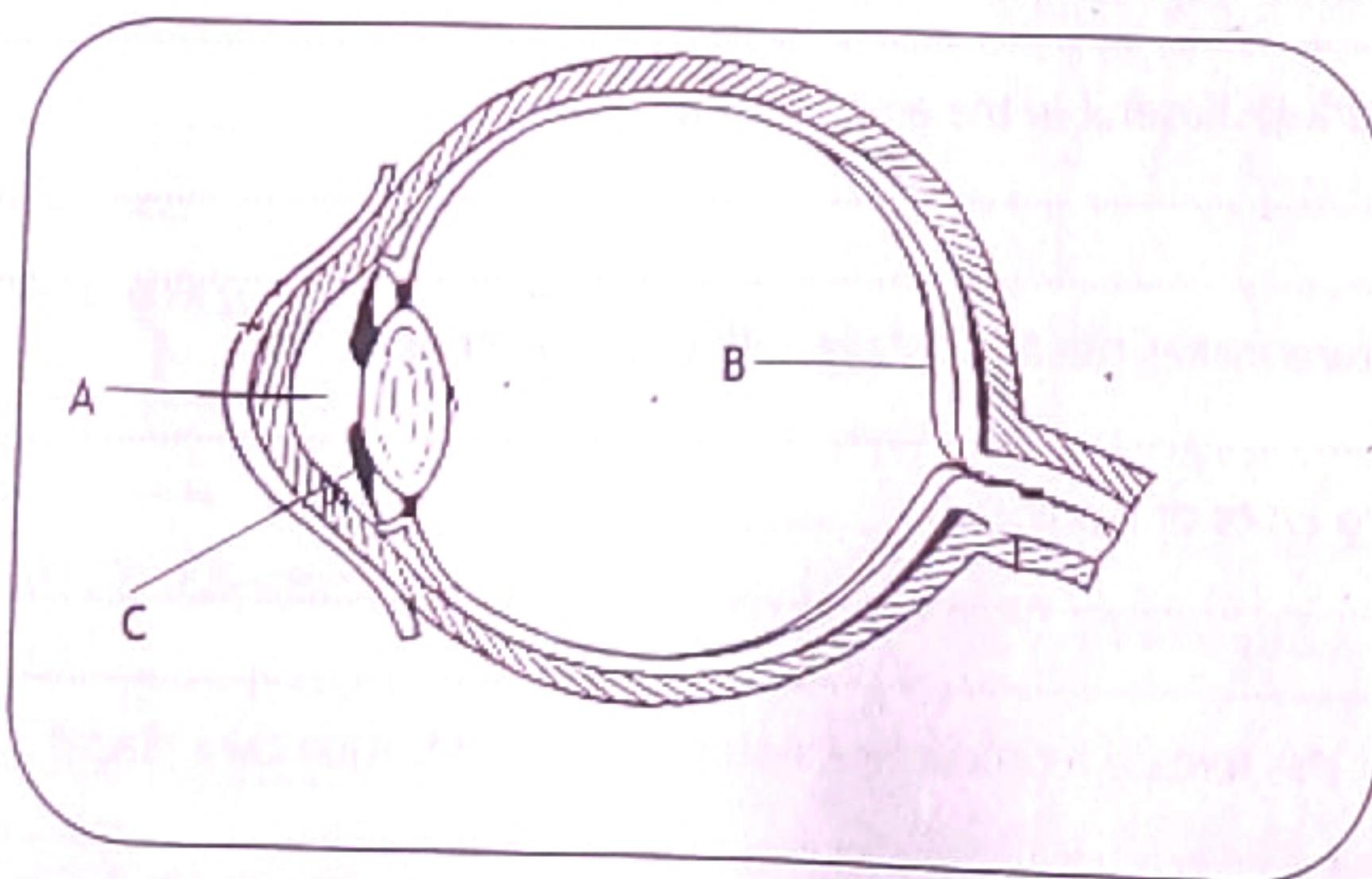
(i).....

(ii).....

(c) To which kingdom of living things do mushrooms belong?

53. (a)

The diagram below shows the human eye. Study and use it to answer question 51.



(b)

(i)

(ii)

(c)

54. (a)

(i)

(ii)

51. (a) Name the parts marked;

- (i) A.....
(ii) B.....

(b) State the function of part marked C to an eye.

(c) Name the eye defect in which images are formed in front of part marked B.

52. (a) Write down any two duties of worker bees in a hive.

- (i).....
(ii).....

(b) What name is given to food the queen bee feeds on?

(c) Write down any one condition that leads to swarming in bees.

53. (a) What name is given to a magnet made by electrical method?

(b) Mention two ways of increasing the strength of a magnet made by electrical method.

- (i).....
(ii).....

(c) Name any one device that uses the magnet made by electrical method.

54. (a) Define each of the following terms in relation to drugs;

(i) Drug abuse

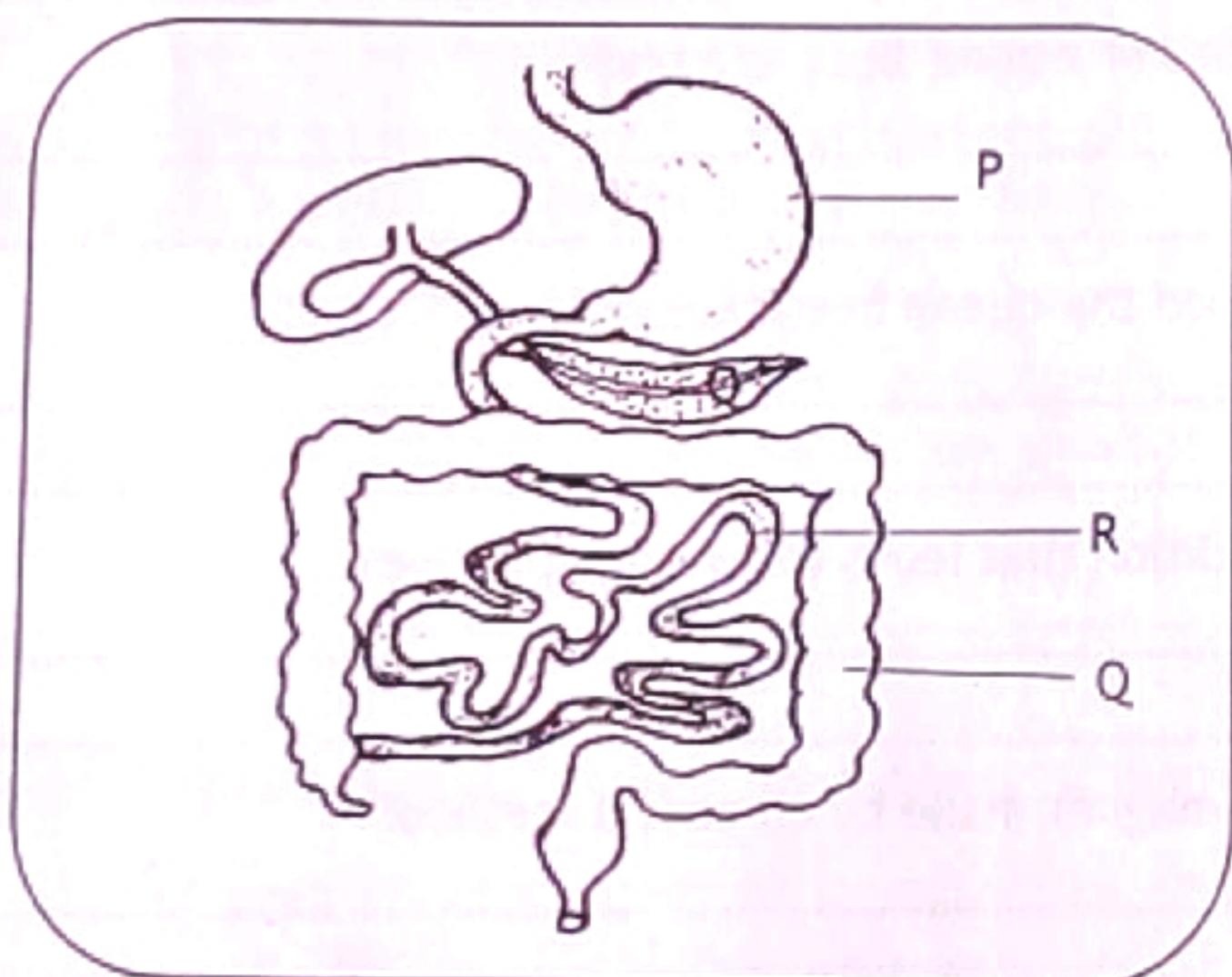
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(ii) Drug dependency

(b) State any one precaution that is always written on packets of laboratory manufactured drugs.

(c) Give any one reasons why medical drugs should be taken following instructions given by the doctor/health worker.

The diagram below shows the human digestive system. Study and use it to answer question 55.



55. (a) Name the class of food whose chemical digestion begins from part marked P.

(b) Write one substance absorbed in part marked Q.

(c) How is part marked R adapted to its role in the human digestive system?

(d) Give any one disorder of the human digestive system.

END