

SECTION A (40MARKS)

Questions 1 to 40 carry one mark each

1.Name the type of soil that holds water for a short time.

.....

2.Give the meaning of ***synthesis*** in the word photosynthesis.

.....

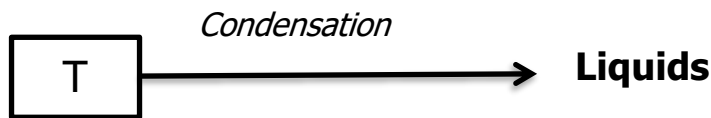
3. Write down one vertebrate that is helpful in the control of malaria at home.

.....

4. How is a switch useful to a cow?

.....

Use the changes in states of matter below to answer question 5 and 6.



5. Name the state of matter marked **T**.

.....

6. By what process do liquids change back to state in **T** ?

.....

7. Why does a ball point pen fail to write in a paper that has pen smeared with jelly?

.....

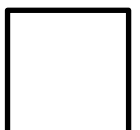
.....

8. Mention any one process that is caused by the action of bacteria in the environment

.....

9. Identify the part of a fish that has similar functions as the ribcage in humans.

.....



10. Give the meaning of the term ***convalescent***

.....

.....

11. State any one reason why earthworms come out of the soil soon after raining?

.....

12. Which type of energy do passengers in a moving bus possess?

.....

Use the diagram of poultry equipment below to answer question 13 and 14



13. Identify the poultry equipment shown in the diagram above.

.....

14. Why is the poultry equipment above made of a rotating handle?

.....

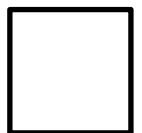
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15. Apart from determining the skin colour, how else is melanin important on the skin?

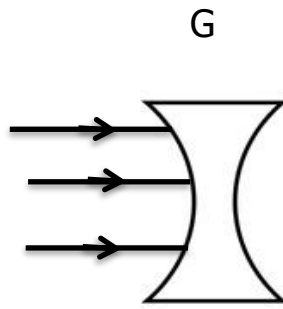
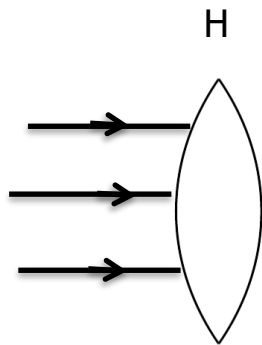
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16. Which property of air helps a person to spray perfume on the body?

.....



Use the diagrams of lenses below to answer question 17 and 18.



17. Complete the rays of light as they pass through lens marked **H**.

18. Identify the eye defect that is rectified by wearing spectacles with lens marked G.

.....

19. How is the function of a *hygrometer* different from that of a *hydrometer*?

.....
.....

20. How does a skunk protect itself against its enemies?

.....

21. State any one way in which simple machines simplify work.

.....

22. State the role of a tourniquet when giving first aid?

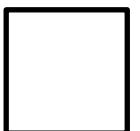
.....

23. Name the sticky substance worker bees use to repair and make the hive water proof.

.....

24. In which one way is heat different from temperature?

.....
.....



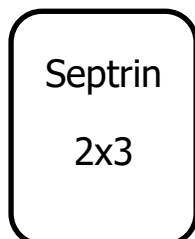
25. Where in the kidney does blood filtration take place?

.....

26. Give one reason why the surface of a solar panel is usually painted black.

.....

Use the information commonly found on drugs to answer questions 27 and 28.



27. What name is given to such information found on drugs?

.....

28. State any one factor considered by the doctor before writing the above information on drugs for patients.

.....

29. State the energy change in a bicycle dynamo when it is at work.

.....

30. State any adaptation of the clinical thermometer that makes it suitable for measuring the human body temperature.

.....

31. State one reason why the vacuum flask should be filled with a hot liquid up to the cork during its use.

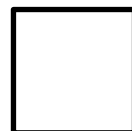
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32. Give any one identification mark used in cattle identification.

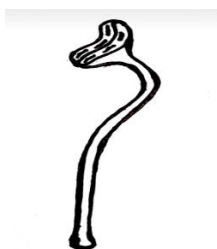
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33. Identify any one biological change that takes place in plants.

.....



Use the part of a flower below to answer question 34 and 35



34. Name the part of the flower shown in the diagram above.

.....

35. Use letter **N** and an arrow to show the part that produces the male reproductive cells.

36. Name the part of the sheep that is cut during the process of docking.

.....

37. Which body condition in babies is characterized by a sunken fontanelle?

.....

38. How is BCG vaccine administered to infants?

.....

39. Give one way of preventing athlete's foot among school children.

.....

40. At what state of matter is water at 32°F?

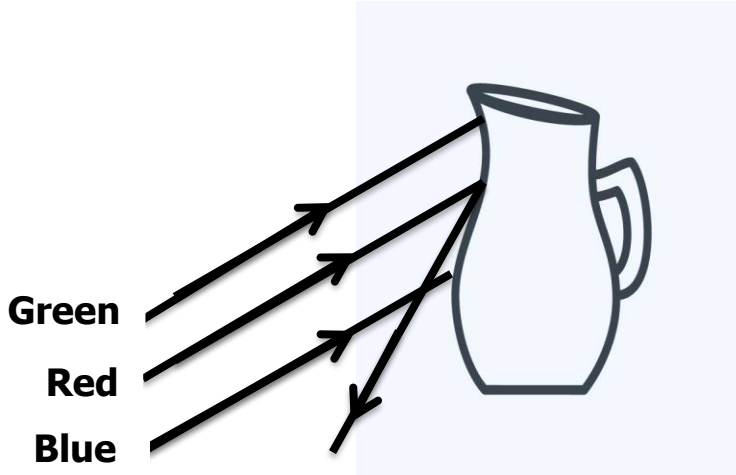
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SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

41. The diagram below shows reflection of light colours on jug. Study it and answer questions that follow.



a). What would be the colour of the jug?

.....

B). Give a reason to support your answer above.

.....

c). State any one device that uses reflection of light as its principle to function.

.....

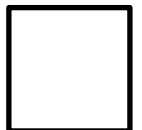
d). Identify any one application of reflection of light in our daily life.

.....

42(a). Apart from the ribcage, give any other two part of the human skeleton used for protection.

i).....

(ii)



B). State one part of the human body where each if the following movable joints can be found.

i) Pivot joint

ii) Gliding joint

43. Study the food chain below and answer questions that follow.

Grass —→ ***Goat*** —→ ***Lion*** —→ ***Vulture*** —→ ***bacteria***

a). What do the arrows represent in the above food chain?

.....

B). Identify the following components from the food chain above.

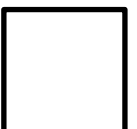
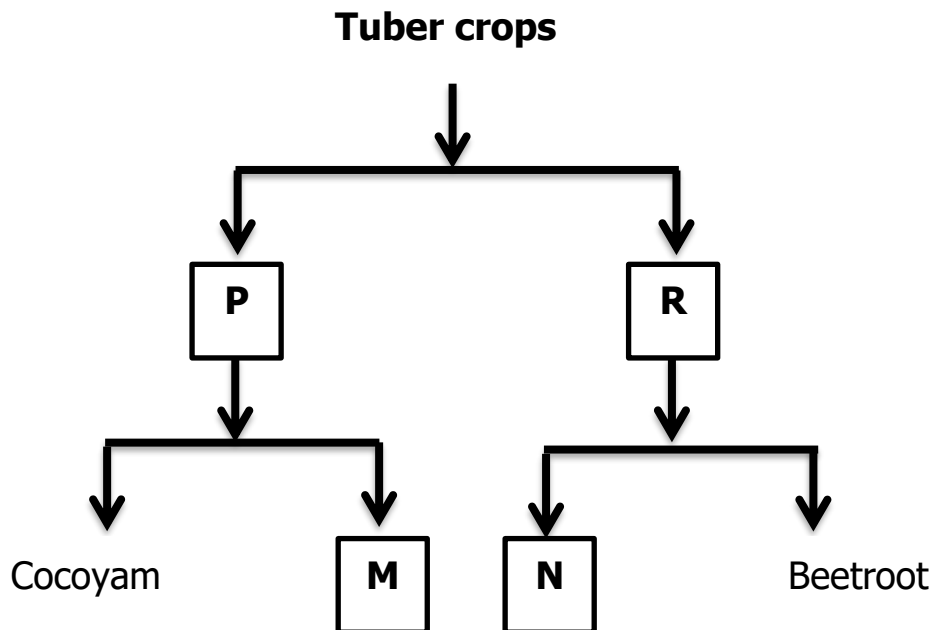
i) Primary consumer

ii) Decomposer

c). What would happen to the goats if the lions are increased in number?

.....

44 Study the classification of tuber crops Below and answer the questions



a). Identify the group of tuber crops represented by letter **P** and **R**.

i) P ii) R.....

B). Apart from beetroot, give one other crop in group R that can propagated by means of seeds.

.....

c). Why can't a sugarcane be added in group P?

.....

45(a). Identify the part of the digestive system where each of the following classes of food are first chemically digested.

i). Fats ii) Proteins

B). State any one way In which the ileum is adapted to food absorption.

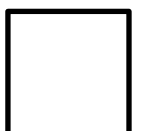
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c). Give one way in which a pupil can keep the digestive system in a proper working condition.

.....

46. The table Below shows common simple machines in List A and the group they group they belong in List B.

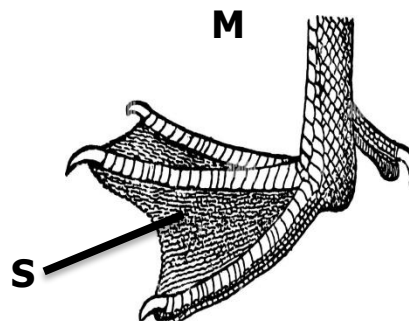
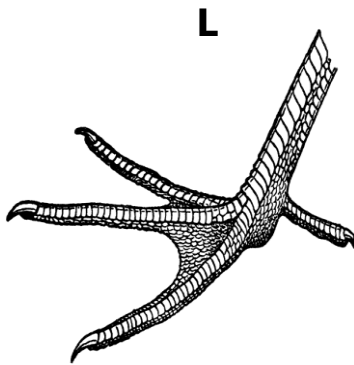
List A: simple machines	List B: Group
Pair of scissors	levers
Ladder	Inclined planes
Flag post	pulleys
Axe	wedges



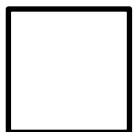
Match correctly, by filling in the group of simple machines in which the following belong.

- a). Pair of scissors
- b). Ladder
- c). Flag post
- d). Axe

47. The diagrams below show two feet of certain groups of birds. Study them and answer questions



- a). Name the part marked **S** on foot M.
.....
- B). Name the group of birds with the type of foot marked L.
.....
- c). Give any one example of bird with the Type of foot marked L.
.....
- d). State any one food suitable for the group of Birds whose foot is marked M.
.....



48(a). State any two ways of increasing milk production in dairy cattle.

i).....

ii).....

B). Which cattle product is used in the Lather industry?

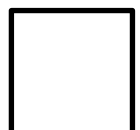
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c). In the space provided below, draw a body conformation of dairy cattle.

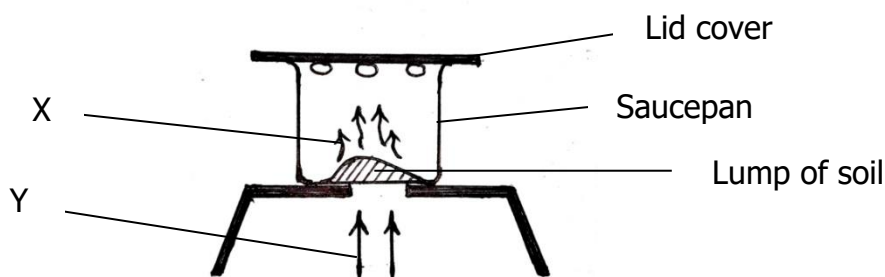


49. The table below shows body organs, the system they belong and their function. Study it and fill in the missing parts.

body organ	Body system	Organ function
.....	Respiratory	Gaseous exchange
Epididymis	Reproductive
.....	Digestive	Produces Bile juice
Skin	Removes sweat



50. The diagram below shows an experiment performed by a P5 class about a certain component of soil. Study it and answer questions.



a). What does the experiment prove about soil?

.....

b). What do the arrows in **Y** and **X** represent?

i) **X**..... ii) **Y**.....

c). State the purpose of covering the sauce pan with the lid cover as shown above.

.....

51(a) Explain how electricity can be used to make magnets.

.....

.....

2 marks)

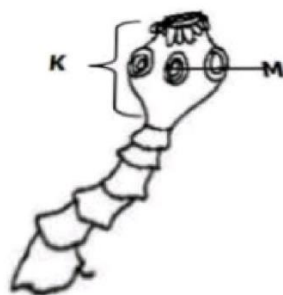
B). Identify the two factors that may affect the efficiency of a wet/simple cell.

i).....

ii).....



52. The diagram below shows a head of an intestinal worm. Study it and answer questions that follow.



a). Name the part marked **K**.

.....

b). How useful is part marked **M** on the above intestinal worm?

.....

c). How does the worm whose head is shown above lead to malnutrition?

.....

d). In which one way can pupil control the entry of the above worm into his/her body?

.....

53(a). What food value is deficient in a child suffering from scurvy?

.....

). State any two signs of scurvy in humans

i).....

ii)

c). Give any one food that can be eaten to prevent scurvy.

.....



54 (a). Give any two structural differences between veins and arteries.

i).....

ii).....

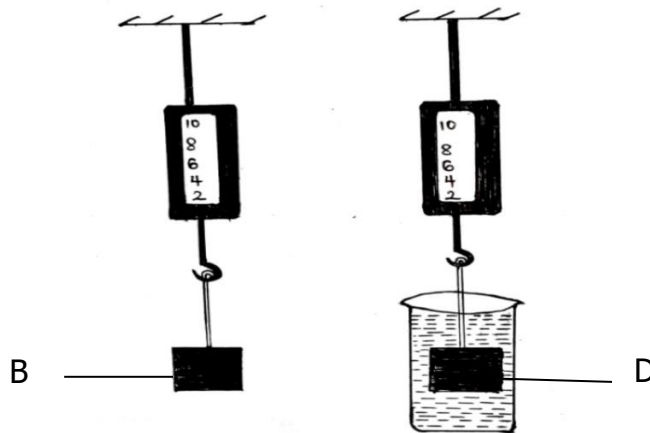
). Name the artery that carries oxygenated blood from the heart to other body parts.

.....

c). identify the medical instrument used to measure the heart beat in humans.

.....

55. The diagrams below show two objects being measured using a spring balance. Study them and answer questions.



a). Which of the two objects above has less weight?

.....

B). Give a reason to support your answer above.

.....

c). Apart from a spring balance, give one other instrument used to measure weight.

.....

d). State any one difference between mass and weight.

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