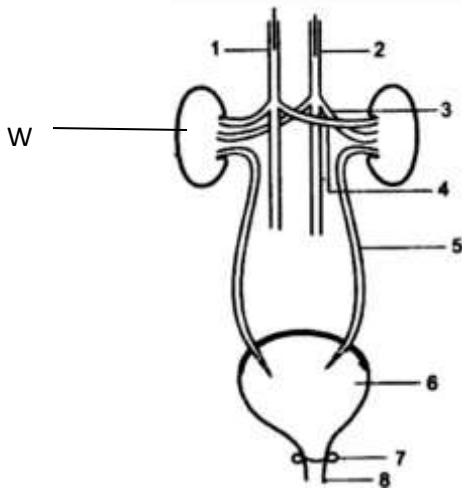


SECTION A (40 MARKS)

Questions 1 to 40 carry 1 mark each

1. Name the type of change that takes place when an iron metal is exposed to oxygen and moisture
.....
2. Identify any one state of matter through which heat travels by convection.
.....
3. State any one characteristic of a housefly that enables it to spread faecal diseases.
.....
4. How is the function of a lactometer different from that of strip cup on a dairy farm
.....
.....
5. Name any one form of energy obtained from the sun.
.....

Use the diagram of the urinary system below to answer question 6 and 7.



6. Name the part marked 5.
.....
7. State the function of the organ marked W.
.....
8. How are sea mammals like whales able to maintain warmth in water
.....



9. Why is BCG vaccine given to babies at birth

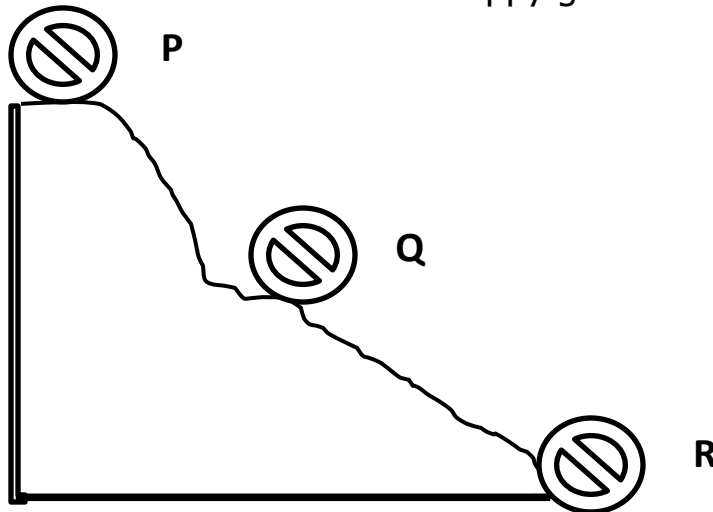
10. Name the gas used by legumes to make proteins

11. Apart from being smart, give one other reason why school children are advised to wear shoes.

12. Name the body condition that requires the use of tepid sponging as a way of giving first aid.

13. Which domestic animal provides people with mutton.

The diagram below is of a ball on a sloppy ground. Use it to answer question 14 and 15.



14. Identify the type of energy the ball possesses at point Q

15. Why would the ball possess the above type of energy at point Q

16. State any one way of keeping the muscular skeletal system in a proper working condition.

17. Give any one piece of advice you would give to fellow pupils in order to prevent constipation.

18. Name any one method of cooking food at home.



Miracle, a p6 girl, shouted near a wall and heard a similar sound after shouting.

Use this information to answer question 19 and 20.

19. What name is given to the similar sound Miracle heard?

.....

20. How does covering of walls with soft boards help to minimize the above similar sound

.....

.....

21. Identify the plant process that performs similar functions as sweating in humans

.....

22. Name the vector that spreads river blindness to people.

.....

23. State any one element of Primary Health Care (PHC) which helped to prevent COVID-19.

.....

24. Why are bananas grouped under perennial crops

.....

.....

25. Give any one way a P7 pupil can reduce chances of getting accidents when crossing a busy road

.....

26. Which excretory product from the lungs is useful to plants during photosynthesis?

.....

27. Give any one mixture a P5 class can separate using evaporation to dryness.

.....

28. Why does an inflated balloon burst after some time when left under sunshine?

.....

.....

29. Which part of a human eye performs similar functions as the aperture of a camera?

.....



Use the diagram of an animal below to answer question 30 and 31.



30. Identify the class of vertebrates to which the above animal belongs.

.....

31. How does the above animal protect itself?

.....

32. State one characteristic that makes a black jack to be dispersed by animals.

.....

33. How is the propagation of Irish potatoes different from that of sweet potatoes.

.....

.....

34. Mention any one way you can prevent some clothes from staining other during washing.

.....

35. State any one way a P7 pupil can prevent the outbreak o dysentery in the community.

.....

36. Give any one way in which ferns are similar to liverworts.

.....

37. State any one lifeskill that school children need to develop in order to safeguard themselves against Sexually Transmitted Diseases(STDs).

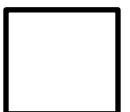
.....

38. Which wood fuel is produced by burning wood under limited supply of oxygen.

.....

39. Identify any one reason why mothers cover some foodstuffs like potatoes using banana leaves during the process of cooking

.....



40. Name the type of soil suitable for making ceramics.

.....

SECTION B (60MARKS)

Questions 41 to 55 carry four marks each.

41(a). In which part of the female reproductive system does each of the following take place?

i) Fertilization

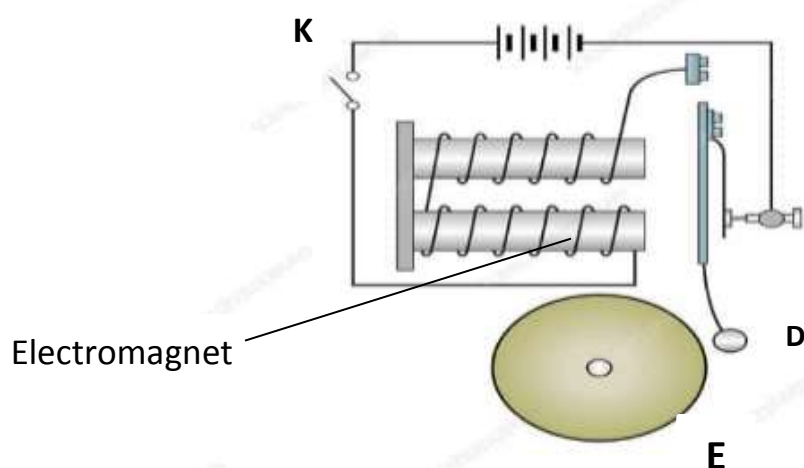
ii) Conception

b). State any two ways of caring for reproductive organs in humans.

i)

ii)

42. The diagram below shows an electric bell. Study it and answer questions that follow.



a). Name the part marked D.

.....

b). Identify the form of energy produced by part marked E when K is closed.

.....



c). What happens to the electromagnet when part K is:

i). closed

ii). Opened

43(a). Write down any two things that can be added to chicken feeds to increase the amount of calcium.

i)

ii)

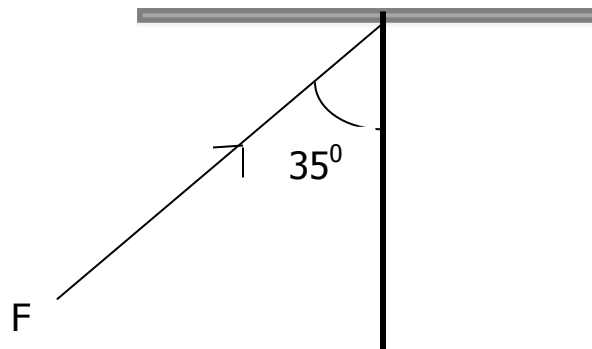
(b). How is calcium added to chicken feeds important to layer birds.

.....

(c). State any one practice a poultry farmer can do to layers to increase on egg production.

.....

44. The diagram below shows reflection of light. Study it and answer questions.

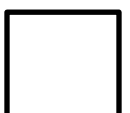


(a). Complete the diagram above by showing reflection of ray F.

(b). Name the ray marked F.

.....

(c). Calculate the size of angle of reflection, and give a reason to support your answer. (half mark each).



(d). Apart from the type shown above, give one other type of reflection.

.....

45(a). State any one importance of practicing the following sanitary measure in the community.

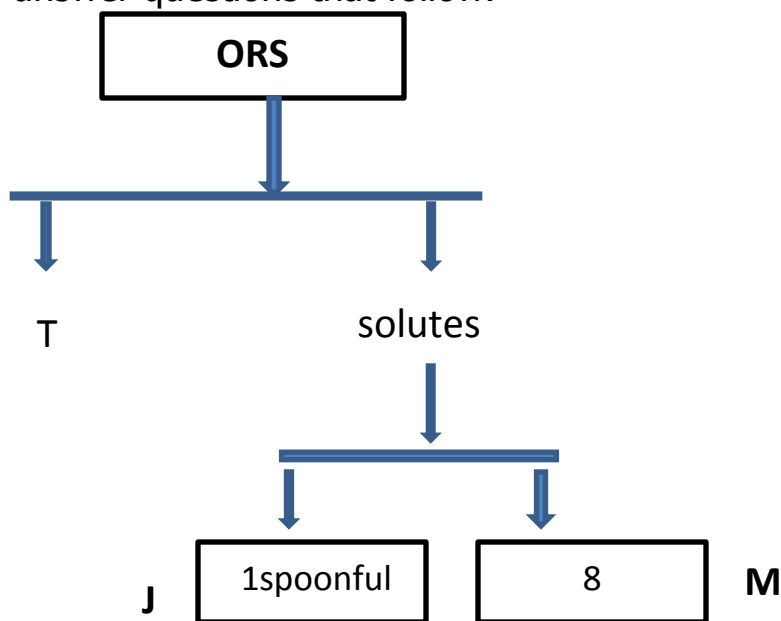
i) Personal hygiene

ii) Sanitation

(b). Identify any two diseases that can be prevented by practicing the above sanitary measures.

i) ii)

46 the diagram below shows the preparation of Oral Rehydration Solution (ORS) at home. Study it and answer questions that follow.



(a). Name the components of ORS marked:

i) T ii) J

(b). How is component Marked M useful to the dehydrated patient.

.....



(c). Give any one way of preventing the contamination of the above solution during its preparation.

.....

47(a). Why are cockroaches grouped under solitary insects?

.....

(b). Identify any two insects that live and work together.

i) ii)

(c). At what stage of development is a housefly useful to man.

.....

48. in the space provided below, draw a well labeled diagram to show that light travels in a straight line. (4 marks)

49(a). What term is used to describe resources that can be replaced naturally when used up

.....

(b). Identify any two examples of such resources you have named in (a) above.

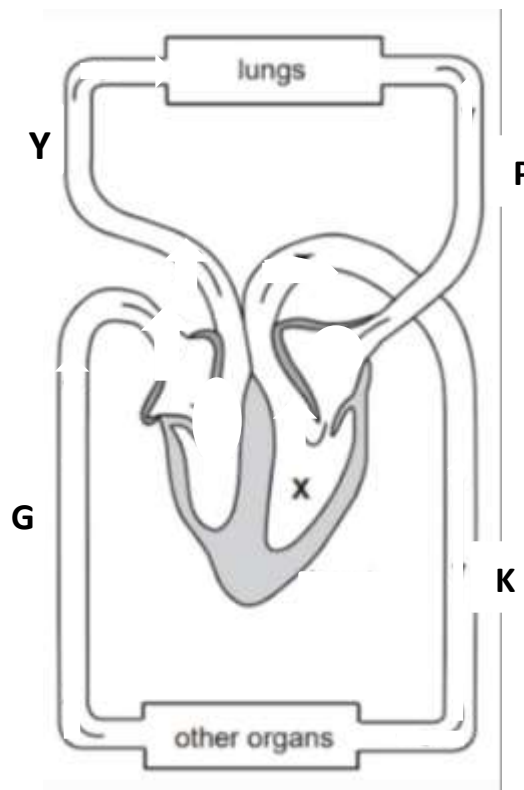
i) ii)

(c). Give any one importance of the air that occupies 0.03% in the environment.

.....



50. The diagram below shows blood circulation around the human body. Study it and answer questions that follow.



(a). Name the body organ marked X.

.....

(b). Give any one reason why blood from organ X goes to the lungs before being pumped to other body parts.

.....

(c). How is the type of blood carried by blood vessel Y different from that carried by blood vessel P.

.....

.....

(d). Use arrows to show direction of blood movement in blood vessel G.



51(a). Name the fungus that has a different mode of reproduction.

.....

(b). How is the above named fungus useful during fermentation of alcohol.

.....

(c). Why can't a mushroom make its own food.

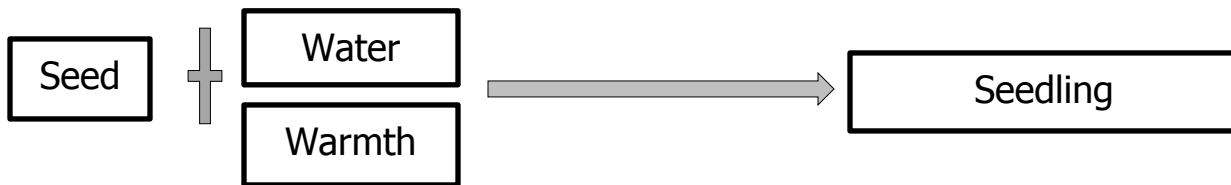
.....

(d). How are gills of a fish different from the gills of a mushroom in terms of their function.

.....

.....

52. The illustration below represents the growth stages in plants. Study it and answer questions.



(a). Name the plant stage represented by the illustration above.

.....

(b). Identify the condition that can be added to make the above plant stage successful.

.....

(c). State the type of soil that supports the above plant stages.

.....

(d). Name the type of changes where the above plant stages can be included.

.....



53(a). Give any two examples of percussion musical instruments.

i) ii)

(b). How can be pitch of a flute be varied.

.....

(c). Apart from percussion instruments, give one other group of musical instruments.

.....

54(a). What scientific term is used to refer to the special food for a queen bee.

.....

(b). State the characteristic of a worker bee that makes it able to carry nectar.

.....

(c). Identify the types of bee responsible for the following duties.

i). mating with a queen bee

ii). Repairing cracks in the hive

55. The diagram below shows Mzee Kazende sharpening his knife. Study it and answer questions that follow.



(a). Name the force the helps Mzee Kazende to sharpen his knife as shown above.

.....

(b). Besides sharpening knives, hoe else is such a force useful to people in the community.

i)

ii)

(c). When is such a force regarded as a nuisance force.

.....

END

