

SCIENCE PLE 2014

CANDIDATE'S INFORMATION

Index number :

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Name :

Signature :

School name :

District name :

SECTION A: 40 MARKS

1. Which type of type soil has rough and large particles?

2. In which state of matter does heat travel slowest?

3. To which class of levers does a wheelbarrow belong?

4. Apart from labour, give one other requirement for starting a livestock farm.

5. What kind of accident requires the use of splints in giving the First Aid?

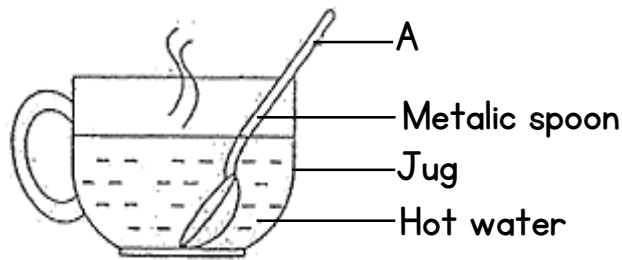
6. Give any one exotic breed of sheep kept for wool production.

7. Which sexually transmitted disease can cause blindness in babies?

8. Name the human body organ that uses light energy for it to function.

9. State one way in which echo can be reduced in a hall.

10. The diagram below shows a piece of metal (spoon) dipped in a jug containing hot water. Use it to answer the question that follows.



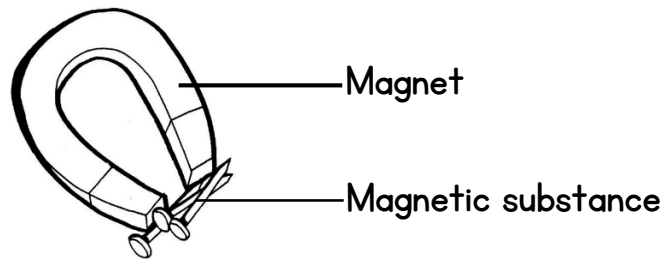
How does part A become hot yet it is not in hot water?

11. Give any one disadvantage of harvesting honey using fire.
-
12. How is the BCG vaccine different from the polio vaccine in the way they are given to children?
-
13. Give one reason why washing of hands after visiting a latrine is a good practice.
-
14. Which process in plants has a similar function as sweating in humans?
-
15. Apart from taking wrong dose, give one other way in which drugs are misused.
-
16. Which condition in babies is shown by sunken fontanel on the head?
-
17. Give one way in which plants differ from animals for photosynthesis.
-
18. How is sun-drying helpful in the preservation of food crops?
-
19. Why is water grouped under renewable resources?
-
20. Which mineral helps in the formation of red blood cells in the human body?
-

21. A part from melting, state any one other physical change that takes place in the presence of heat.

22. Name any other one disease of rabbits that affects poultry birds.

23. Name the method of making a magnet shown in the diagram below.



24. In which method of making water clean, why do you first allow the impurities to settle at the bottom of the container?

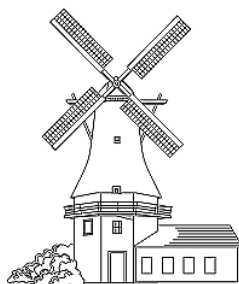
25. Why does a coin thrown in a basin full of water appear to be nearer to the surface?

26. How is the reproduction in whales different from that of fish?

27. Why is it important for government to collect information on human health?

28. State any one piece of advice you would give to a person who suffer from indigestion.

29. The diagram below shows how electricity is produced. Use it to answer the question that follows.



What source of energy is used to produce the electricity?

30. Why does paraffin settle on top when mixed with water?

31. Give any one way in which bacteria are useful to crop farmers.

32. Mention the group of birds to which a crested crane belongs.

33. Which disease is spread to human by rats?

34. How is the function of the pulmonary vein different from that of other veins?

35. Which property of air enables you to drink soda using a straw?

36. Why do plane mirrors produce regular reflection of light?

37. What name is given to a meal containing all the food values in their right amounts?

38. State one way in which married couples can avoid HIV/AIDS among themselves.

39. Give one way in which the use of solar energy is good to our environment.

40. Apart from the number of body parts, state one other difference between arachnids and insects.

SECTION B: 60 MARKS

41. a. Name two poisonous substances found in tobacco.

i. _____

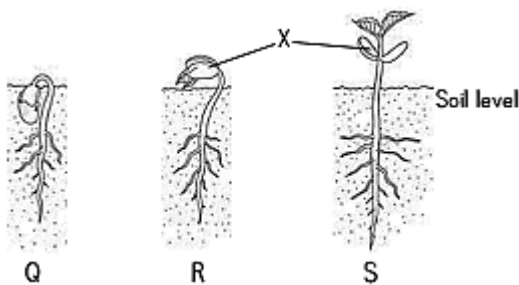
ii. _____

b. State any two effects of cigarette smoking by pregnant women to their unborn babies.

i. _____

ii. _____

42. In the diagram below, Q, R and S show the stages of germination of a seed. Study and use it to answer the questions that follow.



a. Name the part marked X.

b. How is the part marked X useful to the seedling at stage S?

c. Why is the part marked X useless at stage S?

d. What type of germination is shown by the seed?

43. The table below shows joints and their position in the human body. Study and complete it correctly.

Joints	Position in the body
Pivot joint	_____
_____	Shoulder
_____	Knee
Suture joint	_____

44. a. State any two agents of soil erosion.

i. _____

ii. _____

b. Give two ways in which soil erosion can be controlled in hilly areas.

i. _____

ii. _____

45. a. What type of change takes place when an iron tool rusts?

b. Give two conditions necessary for rusting to take place on an iron tool.

i. _____

ii. _____

c. State any one effect of rusting on iron tools.

46. a. Apart from egg eating, name any other vice in poultry.

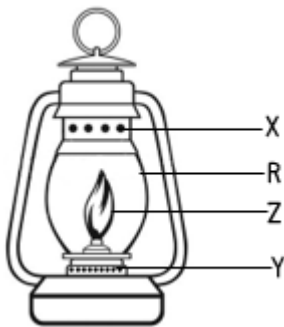
b. Give any one cause of egg eating in poultry.

c. State any two ways of preventing the egg eating vice in poultry.

i. _____

ii. _____

47. The diagram below shows a kerosene lamp. Study and use it to answer the questions that follow.



a. Name the part marked with letter Z.

b. Why is the part marked R made of glass?

c. Give the importance of the parts marked X and Y when the lamp is in use.

X _____

Y _____

48. a. Name the group of crops that are harvested year after year.

b. Give any two examples of crops that belong to the group you have named in (a) above.

i. _____

ii. _____

c. State one way in which the above crops are harvested.

49. The table below shows a group of animals A with their reparatory organs in B.

A	B
Tilapia	Moist skin
Mosquito	Lungs
Frog	Gills
Dog	Spiracles

Write against each animal below, its respiratory organ from B.

a. Tilapia _____

b. Mosquito _____

c. Frog _____

d. Dog _____

50. a. In the human reproductive system, state where each of the following process take place:

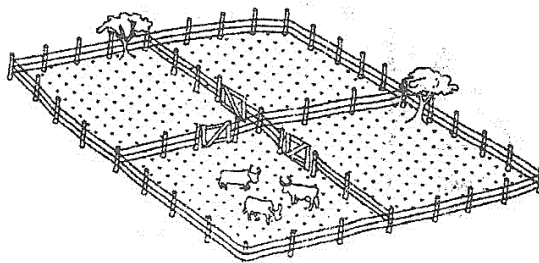
- Implantation _____

- Production of sperms _____

- Production of female hormones _____

b. Give any one use of the placenta to the foetus during pregnancy.

51. The diagram below shows a system of grazing cattle. Study it and use it to answer the questions follow.



a. Name the system of grazing cattle shown in the diagram above.

b. Besides restricting the animals, gives two other advantages of this system of grazing cattle.

i. _____

ii. _____

c. State any one disadvantage of the system of grazing cattle shown in the diagram.

52. a. Give two ways in which Primary Health Care (PHC) is an important programme in the community.

i. _____

ii. _____

b. State any two roles of a school health committee.

i. _____

ii. _____

53. a. What name is given to the practice of growing crops and trees together on the same piece of land?

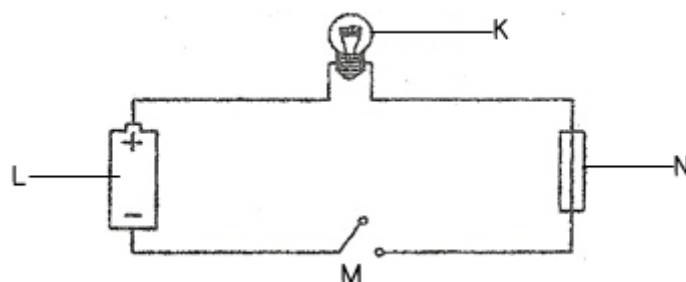
b. State any two ways in which crops benefit from trees when they are grown together.

i. _____

ii. _____

c. Give any one proper method of harvesting trees in the practice names in (a) above.

54. Study the diagram of an electric circuit below and use it to answer the questions that follow.



a. Name the parts marked K and N.

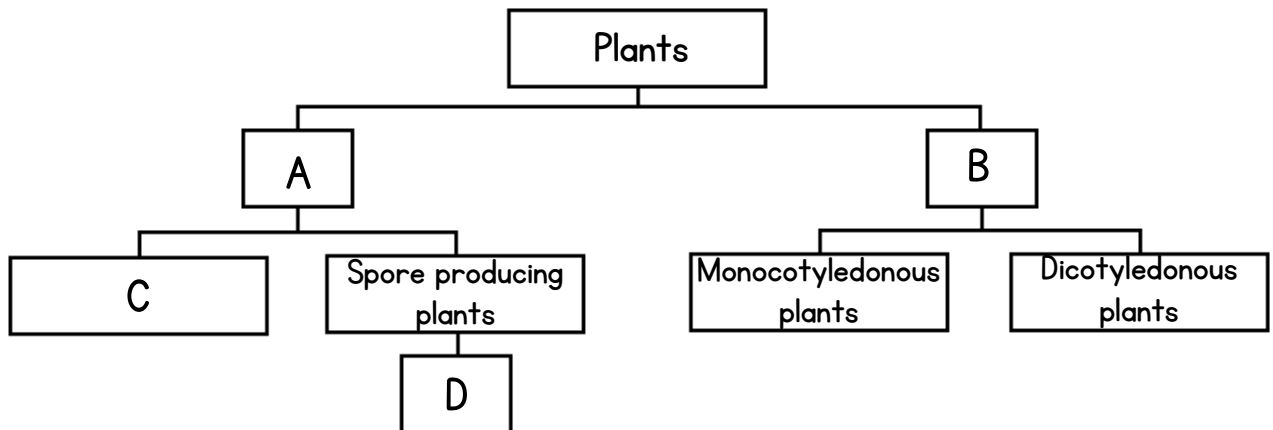
K _____

N _____

b. State the energy change that takes place at L when M is closed.

c. Give any one form of energy produced at K when M is closed.

55. The table below shows classification of plants. Study it carefully and use it to answer the questions that follow.



a. Name the group of plants shown by the following letters.

A _____

B _____

C _____

b. Give any one plant that belongs to the box labeled D.
