

SECTION A

1. Which food value does lipase act on in the course of digestion?

2. How is insulation important in handling electricity?

3. Name the type of fertilization that occurs in reptiles

4. Why can't copper coins be attracted by magnets?

5. What type of joint is found at the hip?

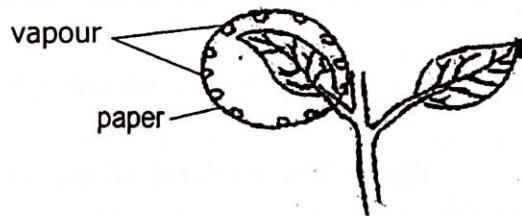
6. How does having porous walls help in the music recording studios?

7. Why is air said to be a common resource?

8. State what will happen to a light ray when it strikes a shiny surface.

9. Mention the way in which amoeba is of danger to man.

Use the diagram below to answer the questions that follows.



10. Which plant process is being investigated in the diagram above?

11. State any one in which carbon-dioxide is useful to human beings.

12. How does reproduction in bacteria differ from that in fungi?

13. State any one drug under narcotic drugs.

14. Why do most vegetable crops require nursery beds?

15. How does re-afforestation help in soil conservation?

16. What type of energy resource does coal belong to?

17. Give the meaning of incubation in human health.

18. Which gas does decomposition add to the atmosphere?

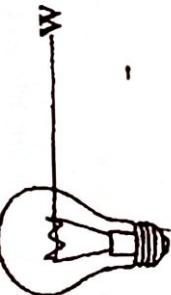
19. What is the danger of dehydration to human beings?

20. When will an object float in water?

21. How do plants benefit from having brightly coloured petals on their flowers?

22. Why do sea mammals have a thick layer of fat under their skin?

Use the diagram of an electric bulb below to answer the questions that follow.



23. Name the part labeled by letter **W**.

24. Why should the part named in No. **23** above be coiled?

25. Why should you advise your young sister to wash fruits before eating them?

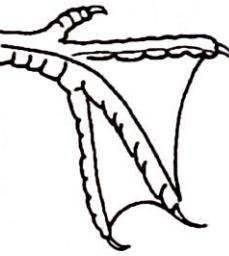
26. What problem in the garden is solved by use of herbicides?

27. Which domestic animal can be a source of the rabies disease to man?

28. Why should a living house be properly ventilated?

29. How is soil of importance to insects?

The diagram shows a food of a certain type of birds. Use it to answer the questions that follows.



30. What is the habitat for the type of birds with the above shown foot?

31. Why do birds with a foot as in No. 30 have long spread toes?

32. When can a child become a passive smoker?

33. Why are health parades of use in a school?

34. Which is the best way of avoiding malnutrition diseases in a family?

35. Sugar was put in water and it disappeared. What substance was formed when the sugar disappeared into the water?

36. Name the organ that regulates the amount of sugar in the blood.

37. Which stage of insects worries crop farmers mostly?

38. Give any way in which long fingernails encourage sickness in human beings.

39. How does rain promote the growth of crops?

40. How does oiling prevent the rusting of garden tools?

SECTION B

41. The environment is made up of the living and non-living parts. Name two part of;

a) The living part

i) _____

ii) _____

b) The non-living part

i) _____

ii) _____

42. a) What is a weed in crop growing?

c) State any two effects of weeds to crops.

i) _____

ii) _____

d) Mention one effect of weeds to the farmer.

43. a) What are germs in human health?

b) Give any two ways how human beings get germs.

i) _____

(ii) _____

c) How can long fingernails promote sickness in human beings?

44. a) State any one way how water gets contaminated.

b) Mention any two diseases human beings can get through contaminated water.

i) _____

ii) _____

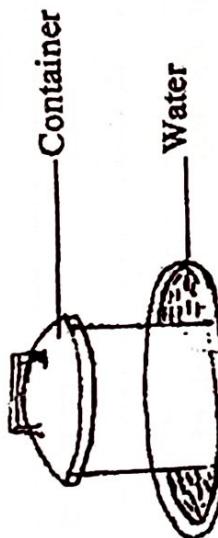
c) Give the best way of making contaminated water safe for drinking.

45. a) What is soil exhaustion?

b) List down any two human activities that cause soil exhaustion.

c) Why should a farmer avoid ploughing up and sown the hills?

46. Use the gadget shown in the poultry keeping to answer the questions that follow.



a) Name the gadget in the diagram.

b) What is the use of the above gadget?

c) Give the gadget that work hand in hand with the one in the diagram.

d) Why should the above gadget be kept clean?

47. O.R.S is made of the liquid and solid parts.

a) State the scientific term for the;

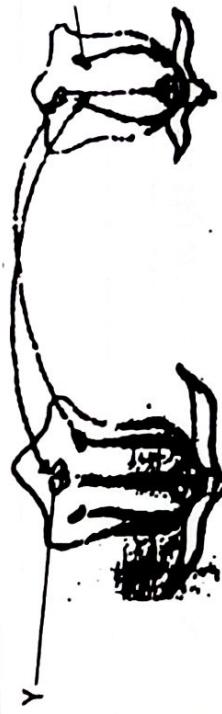
i) Solid part _____

ii) Liquid part _____

b) Which term is used to refer to the disappearance of the solid part in the liquid part?

c) Name the condition which is avoided by using O.R.S in human health.

48. The diagram below shows pollination in flowers. Use it to answer the questions that follow.



a) Name the type of pollination in the above diagram.

b) State the likely agent of pollination in the above diagram.

- c) Mention any two characteristics of the above flowers.
i) _____
49. a) Mention any use of soil to man.
b) Give any one component of soil
c) State the two ways in which soil is formed.
d) How does heat differ from temperature?
e) Name any two effects of heat on matter.
i) _____
ii) _____
50. a) How does heat transfer by radiation differ from conduction?
51. Temperature reading was **60° C.**
a) Give the formula that will be used to get its equivalent on the Fahrenheit.
b) Use the formula in (a) above to get the Fahrenheit scale degree equivalent to **60° C.**
52. a) What is an accident?
b) Which body part is affected by;
i) Strains _____
ii) Sprains _____
c) State one health habit that helps to keep the skeletal system in healthy working condition.
53. a) What is density?
b) Apart from mass, what else must a class know to get the density of an object?
d) If the mass is 80gm and density is 4gm/cc. What is the volume?

54. a) What is a resource?

b) Mention any two examples of renewable resources.

i) _____ (ii) _____

c) State any one of the **5Rs** in using resources.

55. a) What are parasites?

b) State any two ways in which parasites harm their hosts.

i) _____ ii) _____

d) Which is the best way of avoiding parasites in human health?

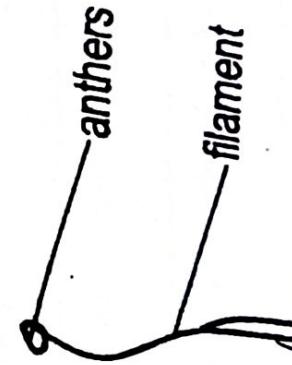
Supplementary V

Name _____

Stream _____

SECTION A

1. Name any one component of the soil which enables seeds to germinate.
 2. Mention the domestic animal associated with rabies.
 3. Which gas will a tree carrying out photosynthesis increase in the atmosphere?
 4. State the blood cells destroyed by the malaria plasmodium parasites.
 5. Why should young babies be frequently?
 6. What important role does the epiglottis play in the swallowing of food?
 7. Give the way in which mammals and birds are similar in their mode of reproduction.
 8. How can the volume of the object below be established?

 9. Which vaccine is given by injection of three doses on the left upper thigh?
 10. What type of change takes place when a young bird grows feathers?
- The diagram below shows part of a flower. Use it to answer the questions that follow.
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11. What type of gametes does the above part produce?
 12. State any place where a forked hoe can be used for cultivation.

13. How does oiling of the moving parts of a machine reduce friction?

14. Why are the music recording studios walls usually covered with porous materials?

15. Mention any one type of injury avoided by raising the cooking place off the ground.

16. Give the importance of a fuse in an electric circuit.

17. State the most dangerous stage of houseflies in human health.

18. Which problem can be reduced by painting or oiling garden tools?

19. Why are the women in the age range of 15 to 49 years given the T.T. Vaccine?

20. What mineral deficiency causes a condition known as anaemic in human beings?

21. Why would you advise somebody not to establish a farm near a forest?

22. The diagram below shows two strings of a guitar with same length. Study it and answer the questions that follows.

Which string will produce sounded a low pitch?

23. Give any one health problem of breathing through the mouth.

24. When can a tick be regarded as a livestock pest?

25. Apart from communal mention any other method of grazing cattle.

26. State any one service offered to pregnant mothers at an antenatal clinic.

27. How does the venom of a snake kill a victim of snake bite?

28. Mention the human body system which experiences dislocation as an accident.

29. Which food value can one obtain from a piece of cassava in his/ her diet?

30. Name the group of invertebrates to which a slug and snail belong.
31. Give any one reason why it is not good to clear land for cultivation using fire.

32. State the way in which draining away stagnant water reduces malaria.

33. Apart from the fish and reptiles, state the other group of cold-blooded vertebrates.

34. What is the importance of adding crashed bones and shells in layers manure?

35. What germ causes rinder pest disease in cattle?

36. What type of erosion takes place in hilly areas?

37. Why does someone harvesting honey have to cover their head with a veil?

38. State the property of air that enables a piece of paper to float.

39. Why is docking an important aspect in sheep rearing?

40. What is the importance of washing hands before serving people with food?

SECTION B

41. a) Why is rusting regarded as a chemical process?
b) State the two conditions required for rusting to occur.
i) _____
ii) _____
c) How does oiling reduce the rusting of garden tools?
42. a) What are essential drugs?
b) Mention any one example of essentials drugs.
c) What does each word below refer to in drug use?
i) dose

ii) Schedule

43. a) How is pruning different from thinning in crop management?

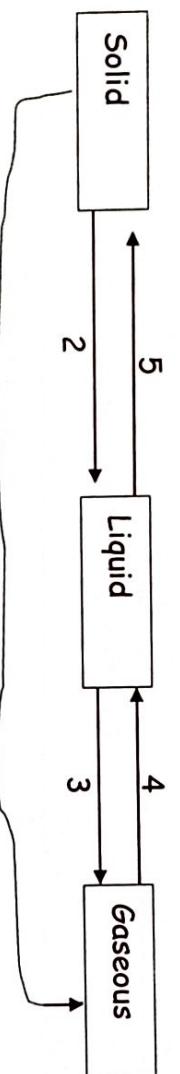
b) Give any two reasons why farmers should prune their crops.

i) _____

ii) _____

c) When does pruning of crops reduce the rate of transpiration?

44. Study the diagram below to answer the questions that follow.



a) What is the diagram above about?

b) Name the process shown by

(ii) 5 _____

c) Which form of energy causes the processes 1, 2 and 3?

45. There are two main groups of vertebrates namely cold blooded and warm blooded;

a) Mention one example of the groups in

i) cold blooded _____

ii) warm blooded _____

b) State the group of cold blooded vertebrates that undergoes internal fertilization.

c) Give the similarity in the mode of reproduction in the warm blooded vertebrates.

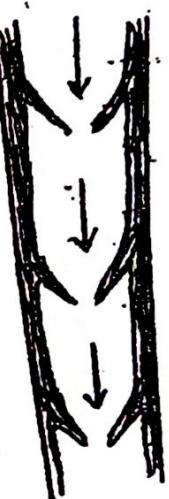
46. What is incubation?

b) Why should birds be allowed to incubate from dark corners?

c) What are perches in a deep litter house?

47.

Study the diagram of the blood vessel below to answer the questions that follow.



- a) What do the arrows in the diagram above show?

- b) Which type of blood does the blood vessel above carry?

- c) State the type of blood vessel, the diagram shows.

- d) Why have you stated the answer in (c) above?

- 48.
- a) What is pollination in plants?

- b) Which part of the flower protects the internal parts at bud stage?

- c) Give two reasons why self-pollination cannot take place in maize plants.
- i) _____
- ii) _____
- 49.
- a) What are pollutants in soil?

- b) Mention any two examples of soil pollutants.
- i) _____
- ii) _____
- d) Why should pollutants be properly disposed off?

- 50.
- a) What is a hive in bee keeping?

- b) Apart from honey which other product is got from bees?

- c) How is the royal jelly of use to bees?

- d) Why should someone harvesting honey have a smoker?

51.

Use the diagram of the type of cattle below to answer the questions that follow.



- a) What is the purpose of keeping the type of cattle with such a shape?

- b) Apart from the shape state two other characteristics of such breed of cattle?
i) _____
ii) _____
- c) Mention any one breed of cattle kept for the purpose in (a) above.

52. a) Mention any two reasons why soil is said to be matter.
i) _____
ii) _____
- b) Apart from soil, state one other example of matter.

- c) Give the state of matter with closely packed molecules.

53. a) Why is parasitism associated not good?

- b) State two examples of internal parasites in cattle.
i) _____ (ii) _____
- c) Which activity can a farmer do to control internal parasites in livestock?

54. a) Which part of a maize grain carries out a function similar to cotyledons in groundnuts?

- b) What important role, does the cotyledon play during seed germination?

- c) Give the function of the part of the seed below.
i) Micropyle _____
ii) testa _____

55. a) Apart from artificial insemination, state the other type of insemination in cattle.

b) Mention any two advantages of artificial insemination to the farmer.

i) _____

ii) _____

c) How is artificial insemination of disadvantage to the animals?

NAME _____

SECTION A

1. Give any one example of a first aid kit.
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.....
2. How does mulching improve on soil fertility?
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.....
.....
3. Give one way stomata are useful to plants during photosynthesis.
.....
.....
.....
4. Identify the part of a plant that that can propagate.
.....
.....
.....
5. To which group of invertebrates does a housefly belong?
.....
.....
.....
6. Name the component of air that helps a farmer to spray acaricides to kill ectoparasites in cattle.
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.....
.....
7. How are echoes useful to fishermen?
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.....
.....
8. Give any one sign of heartwater disease in cattle.
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.....

9. In the space below, draw and name food bolus in the esophagus.

SECTION B

10. MR SMART who weighs 60kg sit 4m away from the fulcrum to balance ~~MUTOSI~~,
who sit 2m away from the pivot.
- Who of the two men is heavier?
.....
.....
.....
 - Give a reason to support your answer.
.....
.....
.....
 - Calculate the weight of MR.KOTOSI.

11. The table below shows some vectors Tarra stage and diseases they spread.

vectors	Germ	Disease
Female anopheles	Malaria
Gnat fly	Riverblindness
cockroach	Virus
.....	Trypanosoma	Sleeping sickness