

**SECTION A: 40 MARKS**  
*Questions 1 to 40 carry one mark each*

1. Write down **one** component of fertile soil.  
.....
2. Give the function of cartilages in the human skeleton.  
.....
3. State any **one** reason why it is bad habit to wear wet shoes and stockings.  
.....
4. In which **one** way are health surveys important to the government?  
.....
5. Which term refers to plants that have root nodules on their roots?  
.....
6. Name any **one** insect that pollinates flowers at night.  
.....
7. Apart from having jointed legs, state **one** other characteristic of arthropods.  
.....
8. Name one part in the human digestive system where mechanical digestion takes place.  
.....
9. Give a reason why the filament of an electric bulb is coiled.  
.....
10. Why is water important in the process of making compost manure?  
.....

The diagram below is of a common vector. Use it to answer questions **11** to **13**.



11. Name the part labeled **P** on the above vector.  
.....
12. Which blood component is affected by the disease spread by the above vector?  
.....
13. In which **one** way can the disease spread by the above vector be controlled in our environment?  
.....  
.....
14. Give any **one** structural difference between arteries and veins.  
.....  
.....
15. By what physical process does dew disappear?  
.....
16. Name the part of the human ear responsible for body balance.  
.....
17. Give any **one** reason why cattle farmers practice cross breeding on the farms.  
.....
18. State the immediate effect of fertilization in both plants and animals.  
.....

Below is a list of different organisms. Use it to answer questions **19** and **20**.

Lion,      Maize,      Mushroom,      Antelope

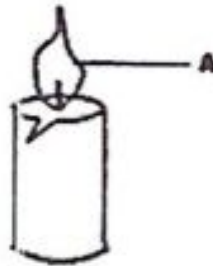
19. Which of the above organisms is a producer?

20. Use the list above to form a correct food chain.

21. Give any **one** danger of swamp drainage to the environment.

22. Mention **one** proper method of harvesting trees in agro forestry.

The diagram below is of a burning candle. Study and use it to answer questions 23 and 24.



23. Name **one** form of energy produced at A.

24. Which gas supports the burning of the above candle?

25. Name any **one** disease that affects the udder and teats of cows.

26. State any **one** law of reflection of light.

27. In which **one** way does the skin reduce excess heat in the body?

28. State the importance of the ventilators on a house?



29. How is the retina of the human eye similar to the film of a lens camera?

.....

30. Give any **one** reason why medical doctors prescribe drugs before giving them to patients.

.....

31. Mention any **one** item used for promoting dental hygiene.

.....

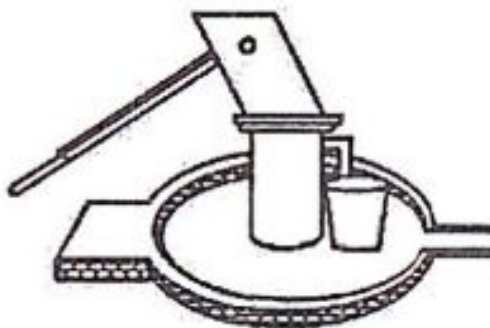
32. Which method of grazing cattle breaks the life cycle of ticks?

.....

33. What energy change takes place in a dry cell when the circuit is complete?

.....

The diagram below shows a simple machine belonging to levers. Use it to answer the questions **34** and **35**.



34. Identify the class of levers to which the above simple machine belongs.

.....

35. Using an arrow and letter **F**, indicate the turning point on the above machine.

36. State any **one** type of weathering.

.....

.....

37. State the best method a primary school going girl can use to avoid early pregnancy.

.....

38. Give any **one** example of anti-social behaviour in the community.

.....

39. Mention any **one** factor that affects the rate of transpiration.

.....

40. Write down any **one** cause of short sightedness.

.....

### SECTION B: 60 MARKS

*Answer **all** questions in this section*

*Questions **41** to **55** carry four marks each*

41. a) Give any **two** causes of common sicknesses in a home and the community.

i) .....

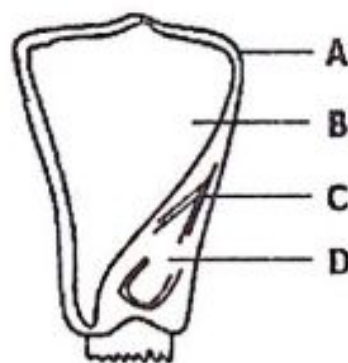
ii) .....

b) State any **two** ways of controlling common sicknesses in a home and the community.

i) .....

ii).....

42. The diagram below shows a section through a maize grain. Study carefully and use it to answer the questions that follow.



a) Name the part labelled **A**.

.....

b) Which plant system develops from part labelled **C**?

.....

c) Give the function of part **B** and **D**.

**B** .....

**D** .....

43. a) Why is piggery an important project to farmers in Uganda?

.....

b) Mention the **two** systems of rearing pigs.

i) .....

ii) .....

c) State any **one** quality of a good pig sty.

.....

44. In the table below, list **A** shows the different methods of separating mixtures and list **B** shows examples of mixtures that can be separated in their wrong order.

LIST A: METHODS	LIST B: EXAMPLES OF MIXTURES
Filtration	Pure alcohol from fermented alcohol
Decantation	Passion fruit juice and seeds
Distillation	Salt crystals and salt solution
Evaporation to dryness	Clean water and settled impurities

Select from the table the correct example of the mixture for the appropriate method and write it in the space below.

a) Filtration .....

b) Decantation .....

c) Distillation .....

d) Evaporation to dryness .....

45. a) Define the term agro forestry.

.....

.....



b) Apart from agro-forestry, give any **two** other human activities that help to conserve the environment.

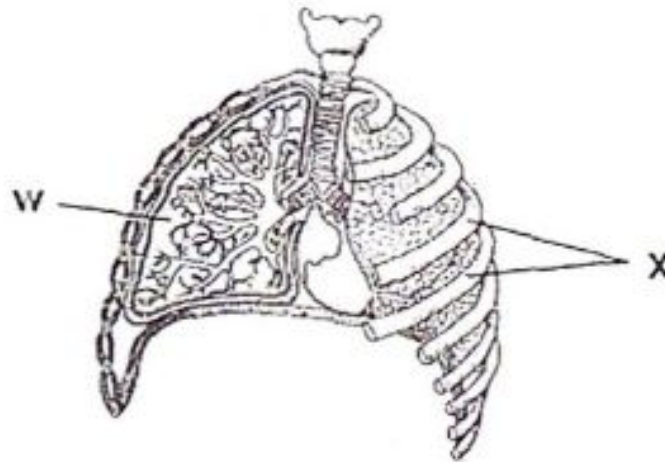
i) .....

ii) .....

c) State any **one** way of caring for trees in agro-forestry.

.....

46. The diagram below shows the human respiratory system. Study it carefully and answer the questions that follow.



a) Name the body organ marked **W**.

.....

b) Why does organ **W** contract during exhalation?

.....

c) State the importance of part **X** to organ **W**.

.....

d) Mention any **one** way smoking of cigarettes affects the above body system.

.....

47. List **P** and **Q** are of organisms belonging to different groups. Study carefully and use it to answer the questions that follow.

**P**

Ferns  
Mosses

**Q**

Toadstools  
Puffballs

a) To which group of plants do organisms in P belong?

.....

b) State one similarity between organisms in list P and those in list Q.

.....

c) In which **one** way are organisms in list P different from those in list Q?

.....

.....

d) Mention any **one** other organism that can be grouped together with those in list Q.

.....

48. a) Define the term renewable resources.

.....

.....

b) Give any **one** example of a non-renewable resource apart from uranium.

.....

c) What form of current electricity is produced using uranium?

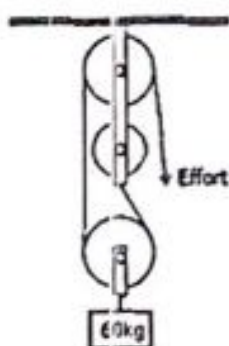
.....

d) Give any **one** way of conserving non-renewable resources.

.....

.....

49. The diagram below shows a type of pulley used for raising a load of 60kg. Study carefully and use it to answer the questions that follow.





a) What type of pulley system is shown above?

.....

b) If the mechanical advantage of the above machine is **3**. Calculate the effort needed to overcome the load. (2 marks)

c) What can be done to the above pulley system in order to raise the load more easily?

.....

.....

50. a) Give the difference between frequency and volume of sound.

.....

.....

b) Give any **one** natural source of sound in the environment.

.....

c) In which **one** way are echoes important in our daily life?

.....

d) State any **one** factor that affects the speed of sound.

.....

51. a) Give any **two** uses of water in our homes.

i) .....

ii) .....

b) State any **one** way water can get contaminated.

.....

c) Give any **one** disease got through drinking contaminated water.

.....

52. a) State any **two** ways of making magnets.

i) .....

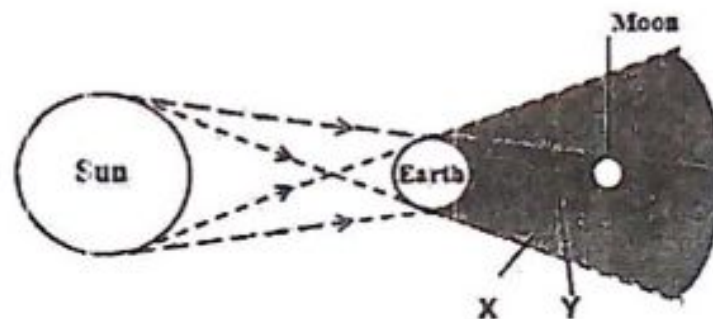
ii) .....

b) Write down **two** ways of demagnetization.

i) .....

ii) .....

53. The diagram below shows a type of eclipse. Study carefully and use it to answer the questions that follow.



a) What type of eclipse is shown in the diagram above?

.....

b) Identify the shadows marked **X** and **Y**.

i) **X** .....

ii) **Y** .....

c) Name any **one** other type of eclipse.

.....

54. a) Which part of human skeleton protects the spinal cord?

.....

b) Name any **two** other protective parts of the human skeleton.

i) .....

ii) .....

c) Apart from protection, give any ~~one~~ other function of the human skeleton.

.....

55. Give the function of each of the following parts of a Ventilated Improved (VIP) latrine.

i) Vent pipe .....

ii) Screen .....

b) Write down any **two** differences between Ecosan and a conventional pit latrine

i) .....

.....

ii) .....

.....

THE EN