

## SECTION A (40 Marks)

NO	ANSWER
----	--------

- |     |   |
|-----|---|
| 1.  | ▪ Broadcasting method.  |
| 2.  | ▪ It kills germs.   |
| 3.  | ▪ By burying them in a deep pit.  |
| 4.  | ▪ It stops producing electricity/ it leaks  |
| 5.  | ▪ It prevents oxygen and water from reacting directly with the iron sheets// it cuts off oxygen and water supply to the iron sheets.  |
| 6.  | ▪ It eases cleaning of the goat house// it prevents wild animals from attacking goats.  |
| 7.  | ▪ It protects the goats from predators, it protects the goats from harsh weather conditions.  |
| 8.  | ▪ Kidney stones.  |
| 9.  | ▪ Protein helps birds to grow very fast// to promote fast growth of birds.  |
| 10. | ▪ Proper disposal of faeces/rubbish// washing hands with clean water before eating food// spraying the imago with insecticides.   |
| 11. | ▪ The villi carry out absorption of food.   |
| 12. | ▪ Leads to road accidents//leads to increased crime rates in the community//leads to poor job performance//alcoholics become public nuisance// the community may lose important people due to alcoholism. |
| 13. | ▪ The rocks expand and explode to form soil.  |
| 14. | ▪ Capillaries.  |
| 15. | ▪ Pale tongue, pale eyes and skin.  |
| 16. | ▪ Electrical method.  |
| 17. | ▪ South Pole.   |
| 18. | ▪ Dewormers.  |
| 19. | ▪ Sick cell anaemia/ haemophilus/ Asthma/ diabetes/leukemia.  |
| 20. | To absorb sunlight energy.  |
| 21. | PHC services should be accessible/affordable/ available/ PHC services should benefit all.   |
| 22. | ▪ It is painful/irreversible.   |
| 23. | ▪ Germination// respiration.  |
| 24. | ▪ To provide extra support to a plant.  |
| 25. | ▪ By means of suckers.  |
| 26. | ▪ Propping.   |
| 27. | ▪ Prolonged breastfeeding delays ovulation.   |
| 28. | ▪ To ensure that all parents take their children for immunisation.  |
| 29. | ▪ Mop//clean water// scrubbing brush//vim.  |
| 30. | ▪ Trees provide shade to animals//trees control soil erosion//the farmer gets double income//a farmer gets a balanced diet.   |
| 31. | ▪ Bees will lack what to eat/nectar.  |
| 32. | Light can be reflected.   |
| 33. | ▪ Mode of feeding// mode of reproduction// having fur on the body.  |
| 34. | Urinary system// excretory system.  |
| 35. | ▪ They were blocked/obstructed by the wall.   |
| 36. | Echoes help bats to locate food at night// echoes help bats to dodge obstacles at night.  |
| 37. | Both (ventilators and chimneys) let out warm air.   |
| 38. | Regular sweeping of the rubbish in the house// smoking latrines//spraying with insecticides to kill the cockroaches//sealing cracks on walls.   |
| 39. | Some cereals are used in baking, cereals are used in brewing.   |
| 40. | ▪ Transpiration helps in rain formation.  |

## Section B (60 Marks)

- |     |   |
|-----|---|
| 41. | (a) Urine/cow dung/faeces/ plant parts/ chicken refuse.<br>(b) Biogas does not produce smoke unlike firewood// biogas does not encourage deforestation unlike firewood. |
|-----|---|



42.	<p>a) Filtering/ filtration.</p> <p>b) washing clothes// washing utensils// bathing//mopping.</p> <p>c) it contains germs// filtering does not kill germs.</p>
43.	<p>(a) Near drowning is the condition when a person stops breathing as a result of his/her lungs filled up with water but not dead while drowning is when a person dies as a result of his/her lungs being filled up with water.</p> <p>(b) water tubs/ bathrooms/ basins/ lakes/ rivers/well/ ponds/ dams.</p> <p>(c) It restarts the breathing system/ it opens the breathing air ways.</p>
44.	<p>a) lungs.</p> <p>b) (i) the diaphragm goes downwards and outwards. (ii)the diaphragm moves upwards to its dome shape.</p> <p>c) oxygen.</p>
45.	<p>a) Monocotyledonous plants/cereals.</p> <p>b) drought// floods// pests// disease outbreak.</p> <p>c) early planting// weeding crops regularly// using modern farming methods// adding manure.</p>
46.	<p>a) vitamins// mineral salts.</p> <p>b) green leafy vegetables// fruits.</p> <p>c) to prevent constipation.</p>
47.	<p>a) open castration.</p> <p>b) open castration makes the animal to lose blood.</p> <p>c) dehorning//branding// ear notching//ear tattooing.</p>
48.	<p>a) monotremes have some characteristics of birds and reptiles.</p> <p>b) spiny anteaters.</p> <p>c) They have blubber to keep them warm in water// they have streamlined bodies to reduce viscosity friction.</p>
49.	<p>(a) Reflection of light is the bouncing back of light rays from a surface.</p> <p>b) Regular reflection.</p> <p>(c) Light enables us to see things around us// light enables us to see ourselves in mirrors // sunlight enables our skins to make vitamin D// light is used when taking photos.</p>
50.	<p>a) i) clay soil. ii) sand soil.</p> <p>b) By planting legumes.</p> <p>c) earthworms make tunnels in the soil that let in air.</p>
51.	<p>(a) Their seeds have two cotyledons/ they have a tap root system/ they have network leaf venation/ their seeds undergo epigeal germination.</p> <p>(b) filament.</p> <p>(c) A seed is a mature ovule while a fruit is a mature ovary/ a seed has one scar while a fruit has two scars.</p>
52.	<p>(a) (i) <b>B</b> - Secondary electric cell (ii) <b>C</b> - primary electric cell.</p> <p>(b) Cell C is cheaper than cell B/ cell C is more portable than cell B.</p> <p>(c) electrical energy.</p>
53.	<p>a) Aluminium is cheap to buy// Aluminium is a good conductor of heat.</p> <p>b) silver// copper// steel// iron// brass.</p> <p>c) copper is used for making kettles and boiler// it enables people to boil food using saucepans//conductors are used for making iron boxes// conductors are used to make distillation tubes.</p>
54.	<p>a) Tethering// strip grazing// paddocking.</p> <p>c) It controls parasites in cattle// prevents overgrazing// it gives grass enough time to grow//manure is evenly distributed.</p>
55.	<p>(a) Mass is the quantity of matter a body/object contains.</p> <p>(b) Mass = Density x Volume</p> $= \frac{20\cancel{cc}}{1\cancel{cc}} \times \frac{4g/\cancel{cc}}{1\cancel{cc}}$ <p>Mass = 80g</p>