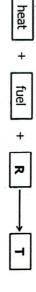
## SECTION A: 40 MARKS

- Name the type of weather that enables boats to sail on water Windy weather
- 2 State any one way of controlling the spread of trachoma among school
- ✓ Spraying insecticides to kill adult houseflies.
- Avoid shaking hand with an infected person.
- Destroying the breeding places for houseflies
- ω Which animal fibre is obtained by shearing merino sheep?
- 4. Name the disease of the circulatory system that leads to abnormal production of white blood cells in the human body Leukaemia/blood cancer
- 5 Sand grains help in the grinding/crushing of food in the gizzard of birds What is the importance of putting sand grains in poultry feeds?

The diagram below shows a chemical process. Use it to answer questions 6 and 7



- 6 What is the gaseous substance at R?
- Name the chemical process that is formed at T. Burning/combustion
- œ Which sticky substance do honey bees use to repair damaged parts of the hive propous
- State any one way of controlling short circuits at home

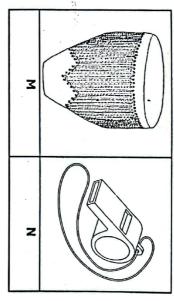
9

- Use properly insulated electric wires when installing electricity
- Avoid overloading the sockets
- ✓ Use fused electrical appliances in homes
- Replacing electric wires with damaged insulators.
- Electricity should be installed by experts only.
- Repairing faulty/damaged appliances.
- Proper wiring when installing electricity.
- Proper connection of electrical appliances
- 10. Give any one factor that favours the growth of a bean seed into a young plant
- Presence of oxygen.
- Presence of warmth.
- Presence of water.

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- 11. Give any one example of a non-renewable resource in the environment Minerals//fossil fuels//rocks
- 12. State any one characteristic of dairy breeds of goats. They have a triangular shape//They have a thin body. They have large udders//They produce plenty of milk//They have long legs/,

The diagrams below show musical devices. Use them to answer questions 13 and 14.



Identify the group of musical instruments to which the device marked

1

13.

Percussion musical instruments

- 14. By vibration of air molecules inside when blown. How does the musical device marked N produce sound?
- 15. in the community can be controlled State any one way in which the spread of germs due to poor sanitation
- Proper disposal of faeces.
- Spraying insecticides to kill adult insect vectors
- Draining stagnant water in the compound
- Regular smoking of ordinary pit latrines.
- Keeping pit latrines clean regularly etc..... (Reject ensuring proper sanitation)
- 16. Which part of a vacuum flask prevents heat loss or gain by radiation? Silvery walls/silvered surface (reject double walled glass)
- 17. cabbage plant? In which way is the food storage in a pea plant different from that in a
- A pea plant stores its food in the pods while a cabbage plant stores its food in
- 18. State the feature that enables railway lines to expand during hot days. Presence of gaps left between rails during construction

Give healt!
Provide the preschool CamScanner

"health at school Give any **one** way in which a school health committee can promote

Organizing peer health education at school.//providing safe water for drinking//Creating safe places for physical education at school. school//Organising health seminars with external health workers. //Installing clean and the presence of dustbins at school//Ensuring proper sanitation in all areas of the Providing hand washing facilities//Conducting regular school health parades//Ensuring

State any one advantage of planting seeds in a nursery bed before transplanting.

20.

It gives a farmer enough time to prepare the main garden.

It protects seedlings from harsh weather conditions It allows a farmer to select healthy seedlings

It prevents wastage of seeds.

✓ It allows proper care for seedlings.

21. A myule tree reduces the rate of transpiration. How does a Mvule tree benefit from shedding all its leaves during dry season?

22. Which parasite transmits bubonic plague to human beings? Rat flea (reject rat)

23. circulatory system Which body system is affected by malaria parasites?

24. Name any one equipment that can be used when finding the volume of Measuring cylinder//overflow can//string//beaker an irregular object.

The diagram below shows a root crop. Use it to answer questions 25 and 26.



25. It has edible roots//It stores its food in the swollen underground roots Why is the crop shown above grouped under root crops?

26. Give any one advantage of pilling soil around the root crop as shown in It encourages the expansion of the tubers //It protects the tubers from damage the diagram above.

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by sunshine and tuber pests like mole

27. benefit from soil. Apart from getting shelter, give any one other way in which termites

They get food//They get building materials//They use soil as breeding grounds

What term describes the way in which biceps and triceps work in the human body?

28.

Antagonistic muscles

29 kill germs. State the method of purifying water where chlorine is added to water to

Chlorination

30.

Sunshine enables the skin to make vitamin D (Reject; The sun is a source of vitamin D/Provides vitamin D) In which way does the sun help to prevent rickets among children?

31. Keep the hutch clean daily. //Make the hutch well ventilated//Separate infected the spread of pneumonia in rabbits. Apart from regular vaccination, state any one other way of preventing

rabbits from health ones//Keep rabbits away from coldness

32. Give any one reason why amphibians lay their eggs covered with jelly. being swept away by flowing water//To hold eggs together for easy fertilisation To protect their eggs from being eaten by predators//To prevent their eggs from

A teetse fly spreads germs through bites/by biting while a housefly spreads germs by use of its hairy body. How is the way in which a tsetse fly spreads germs different from that of

33

questions 34 and 35 The diagram below shows a part found on a pine plant. Use it to answer



Name the part of the pine plant shown above

34.

35. It stores seed used for reproduction How does the part shown above help a pine plant to multiply?

36. the air passage. Name the disorder of the respiratory system that leads the blockage of

Choking (reject; chocking)

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- 37. State any one way in which water is important in the soil decomposition of organic matter in the soil//Dissolves mineral salts in the soil// Facilitates seed germination // Supports the life of soil organisms // Speeds up Enables plants to make their food.
- 38 Give a reason why a hard material should be put in the mouth of a convulsing victim.

To prevent the casualty from biting the tongue.

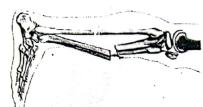
- 39. What type of changes takes place when a nymph develops wings: Biological change (Reject growth)
- 60. State the method used to separate substances with different boiling points. Fractional distillation/fractionation

## SECTION B: 60 MARKS

(a) Which immunisable disease is spread by cockroaches? Polio/poliomyelitis//cholera//typhoid//rotavirus diarrhoea

41.

- 9 places//they reproduce faster// They have high mobility rate. Give any two characteristics which enable make a cockroach to They feed on decaying matter//They have a hairy body//They live in dirty spread germs easily to human health,
- (C) cockroaches // Keeping latrines clean regularly. Proper disposal of human wastes//Spraying insecticides to kill adult State any one practice that can be done to control the breeding of cockroaches at home.
- 42. the questions that follow. The diagram below shows a type of fracture. Study and use it to answer



Name the type of fracture shown above Compound fracture

(a)

9 -Swelling of the injured part. Give any **two** signs of the type of fracture show above. -Damaged tissue at the injured part -Bleeding at the injured part. -Severe pain around the injured part -The broken bones comes out of the skin

<u>C</u> State any one way in which you can give first aid to a Use a stretcher to carry the casualty to the health centre -Give the casualty crutches to help him/her in walking. The splints around the injured part. casualty with the type of fracture shown above

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- 3 (a) Apart from jacaranda, mention any **two** other examples of sed dispersed by wind in the environment: -Silk cotton seeds//tridax seed//phyllon fruit seed//orchid seed
- 9 State any two characteristics of seeds dispersed by wind. feather-like structure//They have parachute-like structure//They have wing-like structure (Reject; They are "small" alone) They are small and light //They have a hairy-like structure //They have
- (a) Apart from enzymes, give any two other substances that help in the digestion of food in the human body

44.

-Saliva//teethi hydrochloric acid//digestive juice

- E State any one: -They speed up chemical digestion / They change food from one form to le played by enzymes during digestion of food.
- (c) Give any one health habit that helps to strengthen the human -Feeding on a balanced diet//Doing regular physical exercises// digestive system boiled water. Limiting alcohol intake//Having regular meals//Drinking plenty of
- (a) Name the mode of reproduction in;

**4**5.

- cell budding/budding
- Toadstool by means of spores/sporulation
- 9 State any two ways in which yeast is important to people and mineral salts e.g. potassium in baking of bread//It is a source of nutrients like vitamin B, proteins It used in the brewing of alcohol//It is used to flavour cheese//It is used
- (a) Write down any two changes of state of matter that take place in Evaporation//condensation//freezing//melting//deposition//sublimation the absence of heat.

46.

9 Give any two ways in which good conductors of heat are useful to

Mnemonic used: MEFDCS

- They are used for making cooking utensils
- -They are used for making electric wires
- They are used to transmit electricity

of each disease. Study and complete it correctly. The table below shows cattle diseases, germs that cause them and signs

loss of weight//loss of appetite	protozoa	(iv) Nagana
Animals walk in circles.	bacteria	(iii) Heart water disease
Blisters on top of the hooves and mouth.	Virus	(ii) Foot and mouth disease
Swollen udder//painful udder Udder//Blood-stained milk	Bacteria .	(i) Mastitis
Sign of the disease	Germ	Disease

(a) of gravity//Upthrust force//Mass of an object. Give any two factors that affect the weight of an object Nature of the object//Material from which an object is made//Force

48.

- **b** State any two differences between weight and mass
- Mass is measured in kilogrammes or grammes while weight is measured in Newtons
- Mass is constant while weight changes.
- Mass is the quantity of matter an object contains while weight is the force of gravity acting upon an object.
- (a) Name the method used to administer;

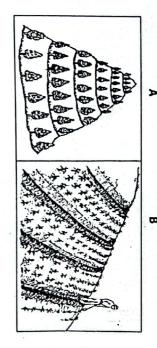
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49.

- Polio vaccine in the body oral method/orally/Putting drops in the mouth
- BCG vaccine in the body injection method
- **(b)** It protects infants from childhood killer diseases//It reduces infant Give any two ways in which immunization helps to maintain the health of infants.

among children. mortality rate//It boosts the immunity of the babies//It reduces disability

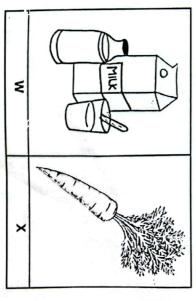
> 50. environment. Study and use them to answer the questions that follow The diagrams below show methods of controlling soil erosion in the



- (a) Name the methods of controlling soil erosion marked A and B.
- $\odot$ terracing
- contour ploughing

 $\equiv$ 

- **(b)** How does method marked A control soil erosion? Terraces reduce the speed of fast flowing water.
- <u>O</u> soil erosion above can be used hilly areas//mountainous areas Identify any one land scape in which the methods of controlling
- 51. The diagrams below show foodstuffs. Study and use them to answer the questions that follow.



- (a) Name the food nutrient found in the foodstuffs marked W and X.
- proteins

 $\equiv$ 

 $\equiv$ vitamin A

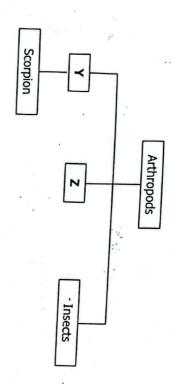
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- 9 Identify the deficiency disease caused by lack of food nutrient found Night blindness in foodstuff X in one's diet.
- <u>O</u> State any one sign of deficiency of food nutrient found in Swollen moon-like face//Stunted growth//Sunken stomach//Swollen foodstuff W in children.

limbs//Wasted muscles//Soft brown hair scattered on the head.

The table below shows groups of arthropods. Study and use it to answer the questions that follow.

52.



- (a) Name the group of arthropods represented at Y.
- 9 State the difference between a scorpion and arthropods at  ${f Z}$  in the way they reproduce. A scorpion produces live young ones while arthropod Z lays eggs.
- to which a praying mantis belongs. Mention the group of arthropods from the classification table above

0

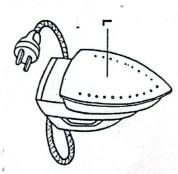
- <u>a</u> Identify the group arthropods that is not included on the classification table above. Myriapods
- (a) Give any two examples of bacterial Sexually Transmitted Diseases Gonorrhoea//syphilis//chlamydia (STDs) that can spread among the youths.

53.

**b** e.8. genital warts and herpes piercing objects with an infected person//Through skin-to-skin contact Through having unprotected sexual intercourse //Through sharing sharp (STDs) can spread among the youths in the community. Mention any two ways in which Sexually Transmitted Diseases

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54. answer the questions that follow. The diagram below shows an electrical appliance. Study and use it to



What form of energy enables the above electrical appliance to work? Electrical energy/electricity

(a)

- 9 How does the electrical appliance above work? By changing electrical energy to heat energy
- 0 It enables people to iron their clothes and bedding. / It is used for ironing In which way is the above electrical appliance useful to people? clothes /bedding,
- <u>a</u> Name the form of energy produced at part marked L Heat energy
- (a) Apart from brass, give any one other example of an alloy. Bronze//solder//steel//dental amalgam (Reject dentist amalgam)

55.

- (a) Name the **two** metals used to make brass.
- 9 Give any one reason why alloys are made To lower the melting point of metals
- To make metals more resistant to corrosion.
- To make wear and tear of metals difficult / To make wear and tear of metals strong and durable.

END

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