

## Section A (40 Marks)

1. Name one common accident at school.

~~Scald~~

2. Why are bees grouped under social insects?  
~~Bees move and work together~~

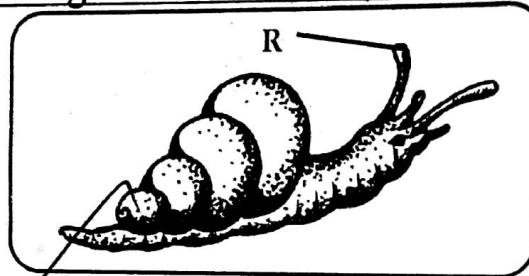
3. Which kidney disease is caused by obstruction of the bladder leading to solidification of the salts?

~~Kidney failure~~

~~Kidney stones~~

4. Give one importance of heat transfer by conduction in our daily life.  
~~It enables people to iron clothes using flat iron boxes~~

Study the diagram below and use it to answer questions 5 and 6



5. To which group of invertebrates does the above diagram belong?  
~~Molluscs~~

6. State the importance is part marked R to the above animal shown in the diagram above? ~~It is used for sensing~~

~~Part marked R protects the above animal from bad weather.~~

7. Which element of weather causes the crushing of aeroplanes in the atmosphere?  
~~Rainfall.~~

8. Identify the type of cattle with triangular body shapes.  
~~Dairy cattle~~

9. What happens to the image of a pin hole camera when the distance between the camera is decreased?  
~~The image becomes larger than the object~~

10. How do bacteria multiply in the environment?  
~~By cell division~~

Name the form of energy produced by vibration of a drum.

~~Sound energy~~

Which disease vector is involved in the 4F's germs path?

~~Housefly~~

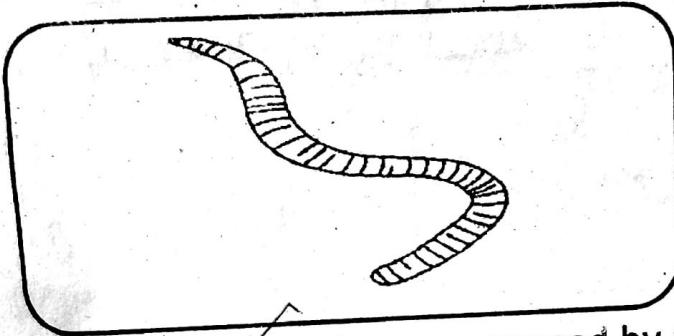
How can children acquire artificial immunity in the community?

~~Through bottle feeding~~

State one element of a clean home.

~~Toilet~~

Study the diagram below and use it to answer questions 15 and 16.



15. Name the type of the skeleton possessed by the organism shown in the diagram above.

~~Hydrostatic skeleton~~

16. What do earthworms use for breathing in the environment?

~~Gills~~

17. Mention one way of controlling the spread of cholera?

~~By cleaning dirty places~~

18. Give one reason why people smoke in the community.

~~Some people smoke to pass time~~

19. Write any one form of energy is produced when friction occurs between two bodies in contact?

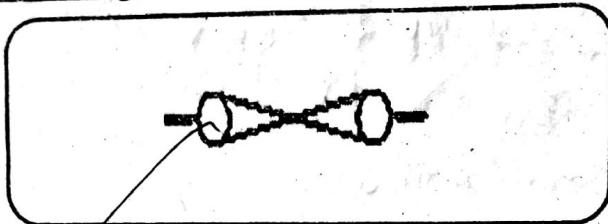
~~Heat energy~~

20. Name the mineral salt obtained by eating boiled eggs.

~~Proteins Iron~~

21. Why does the heart of the person running beat faster than normal?  
~~To oxidise food in the body, to produce more~~
22. State one advantage of staking tomato plants in the garden.  
~~It prevents tomatoes from rotting~~
23. In which way are scavenger birds important in the environment?  
~~Scavenger birds help to clean the environment by feeding on left overs.~~
24. Why should hutches be raised atleast 1 metre from the ground?  
~~To prevent rain water from destroying it.~~

Use the diagram below to answer questions 25 and 26



25. What component of electricity is represented by above symbol?  
~~A fuse~~
26. How is the above component of electricity adopted to its function? ~~In case it is made of thin wires for easy melting instead of too much flow of current.~~
27. State one way of caring for a pregnant woman at home.  
~~By providing her with plenty of drinks~~
28. Why is oil not a condition necessary for rusting to take place?  
~~Oil floats on water~~
29. State one way of conserving banana plantation.  
~~By planting other banana plants.~~
30. Name the instrument used to measure densities of different liquids.  
~~Hydrometer~~

How are the spurs important to a cock?

~~Spurs~~ Spurs are used for fighting.

2. Which part of the ~~shoot~~ system helps a plant to carryout transpiration?

~~Leaves~~

33. Give one reason why air is important in the soil as a resource.

~~Air is a component of fertile soil~~

~~Nitrogen is used for making fertilizers~~

34. State one role of the tongue during food digestion.

~~The tongue is used for tasting food.~~

Study the table below and use it to answer questions 35 and 36.

| Type of teeth | Incisors | Canines | Premolars | Total |
|---------------|----------|---------|-----------|-------|
| Lower jaw     | 4        | 2       | 4         | 10    |
| Upper jaw     | 4        | 2       | 4         | 10    |
| Total         | 8        | 4       | 8         | 20    |

35. Complete the table above.

36. Name the set of teeth shown in the table above.

~~Milk teeth~~

37. Why is it advisable to breathe through the nose not the mouth?

~~In the nose there is ciliary hairs which trap a come a long with air~~

38. Name the type of injury caused by a hot saucepan.

~~Burn~~

39. State one disadvantage of breast feeding to the family?

~~Breast feeding is not good when a mother i work.~~

40. Name the type of family where we find father, mother and their biological children.

~~Nuclear family~~

## Section B (60 Marks)

41. (a) To which group of energy resources is water grouped.

Renewable resources

Energy renewable resource

- (b) Mention the type of electricity generated using the power of flowing water.

Hydroelectricity

- (c) Name any two energy resources obtained from water.

(i) Electricity

(ii) Minerals

42. (a) What element of PHC is intended to eradicate the spread of diarrhoeal diseases in the community?

Control of Diarrhoeal Diseases

- (b) State the element of PHC promoted by the following.

(i) sweeping the latrines

Sanitation

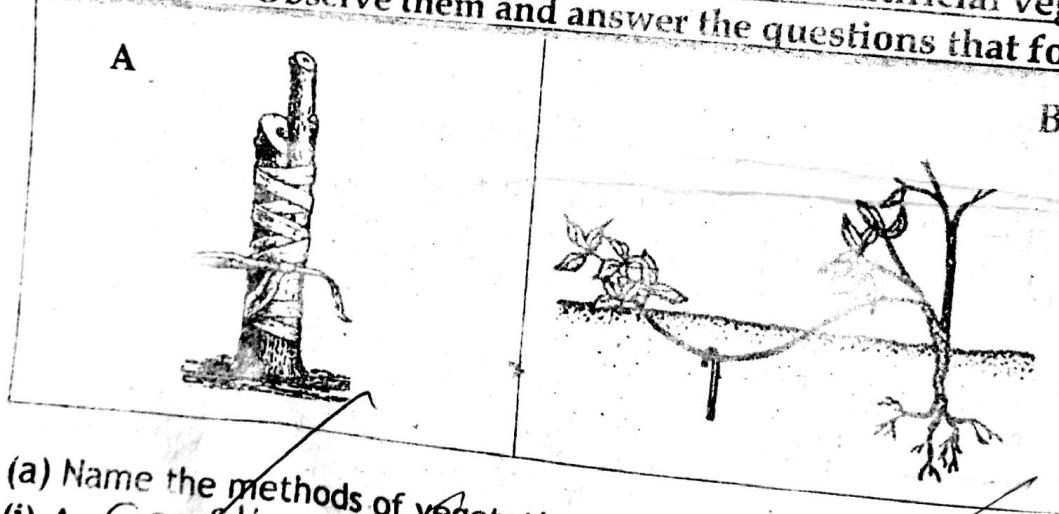
(ii) feeding on a balanced diet

Food and nutrition

- (c) State one principle of PHC

Start with the most urgent.

43. The diagram below shows different methods of artificial vegetative propagation. Observe them and answer the questions that follow.



- (a) Name the methods of vegetative propagation A and B

(i) A Grafting

(ii) B Layering

- (b) Mention any one plant that can be propagated using method A.

Mango plant

Lemon plant, Orange plant

- (c) Which method of vegetative propagation is used in cassava?

Stem cutting

44. (a) Mention any two examples of wedges used for clearing land.

(i) Hoe

(ii) Panga

(b) Apart from clearing land, state any two uses of wedges in our daily

(i) A knife is used for peeling food.

(ii) A panga is used for cutting small trees.

45. (a) How are the following items important during bathing?

(i) soap

Soap kills germs

(ii) clean water

Clean water removes bad smell.

(b) Give two reasons why we should iron our clothes.

(i) To kill germs

(ii) To look smart

46. (a) Write the sanitary measure which helps in the following ways;

(i) enables proper drying of utensils.

Constructing platestands

(ii) helps in the proper disposal of broken bottles.

Digging rubbish pits

(b) How can proper disposal of human wastes control the spread of diarrhoeal diseases?

It prevents the houseflies from spreading their

(c) Give one reason for sweeping rubbish in the compound.

To promote proper personal sanitation

To remove breeding places for vectors

47. (a) Give any two conditions that can promote the health of people in the community.

(i) Provision of safe water

(ii) Proper personal hygiene

Control of NP insects

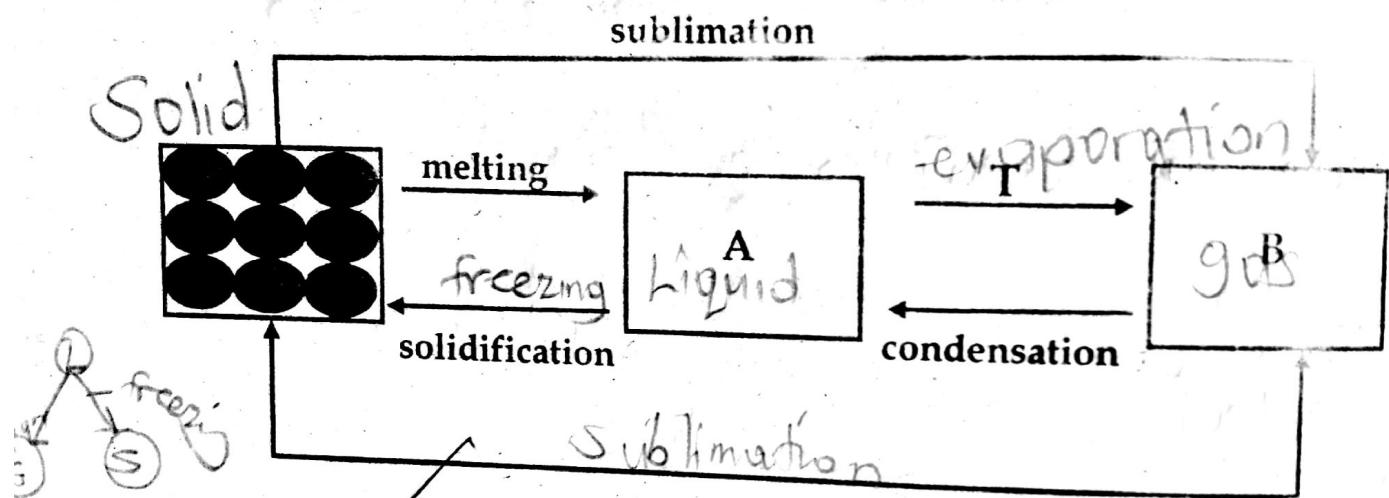
(b) Why is smoking called a bad health life style?

Smoking causes lung cancer

(c) Write down one example of a good health style.

Doing regular physical exercises

48. The diagram below represents the changes in states of matter. Use it to answer the questions that follow.



(a) Name the state of matter A and B.

(i) A Liquid state

(ii) B Gas state

Evaporation

(c) Which form of energy enables the change T to take place?  
Heat energy

49.

(a) Give the difference between clean water and safe water.  
Clean water contains germs while safe water does not contain germs

(b) Mention any two processes involved in water treatment.  
Condensation, Filtration

(c) Why should dirty water be treated before drinking?  
To kill germs

(a) Give any two advantages of rearing exotic breeds of goats over local breeds.

- (i) Exotic breeds of goats grow faster than local breeds of goat.  
(ii) Exotic breeds of goats produce much meat than exotic breeds of goat.
- (b) How does goat keeping contribute to crop growing? ~~exotic breeds of goat~~  
Goats provide mature manure to crops.

(c) What part of the goat is used in the making of leather?  
~~Wool~~ Skin

Match the following crop growing practices to their meanings.

| Practice           | meaning   |
|--------------------|---|
| (a) Plant training | Is the removal of excess plants in the garden or nursery bed          |
| (b) Thinning       | Is the making of seedlings get used to harsh garden conditions.       |
| (c) Transplanting  | Is the making of a plant grow in a desired shape or direction         |
| (d) Hardening off  | Is the transfer of seedlings from the nursery bed to the main garden. |
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52. (a) State any one secondary characteristic in;

(i) boys

Growth of hairs under the armpits

(ii) girls

Growth of hairs around the sexual organs

- (b) Mention any two ways of managing body changes.
- (i) By joining football clubs
- (ii) By joining netball clubs.

53. (a) Name one example of the following sources of light.

- (i) Natural source of light

The sun

- (ii) Artificial source of light

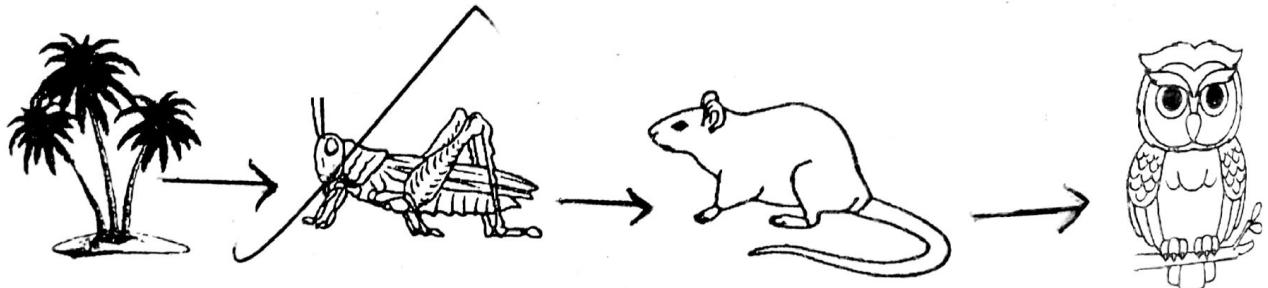
Bulb

- (b) Give any two importance of light energy in the environment.

(i) Light enables people to see things around them.

(ii) Light is used in industries at night.

54. Use the food chain below to answer the questions that follow.



- (a) Identify the following in the food chain above;

- (i) Producer:

Plant Grass

- (ii) Tertiary consumer:

Bird

- (b) What will happen to the grass when all grasshoppers are killed?

Grass will become the second consumer.

- (c) Use arrows to complete the food chain shown in the diagram above

- (i) DONE

- (ii)

- 55.

- Write four ways how you would recover salt sand.

(i) By using evaporation to dryness.

(ii) By using fractional distillation method

(iii) By using a filter funnel

(iv) By using crystallisation method.