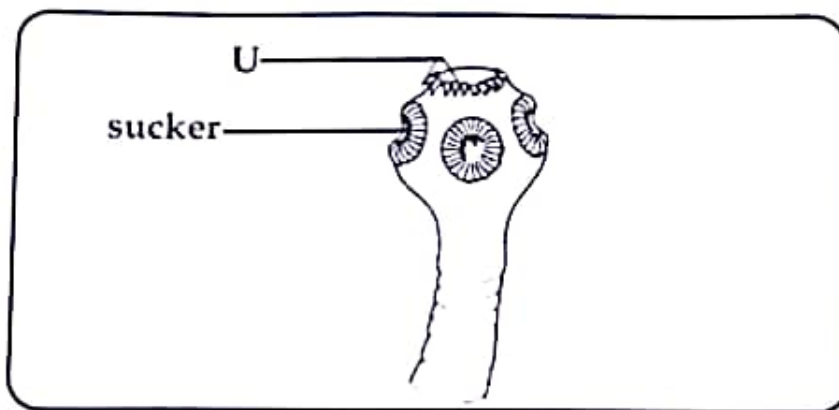


Section A (40 Marks)

1. Name the outer protective layer of the human skin.
Cornified layer
Epidermis
2. State any one effect of accidents to man.
Accidents lead to internal and external bleeding // Accidents lead to lameness // Accidents lead to death // Accident lead to body injuries
3. Give one reason why poultry farmers rear dual purpose chicken.
For meat and egg production.
4. Name the process by which heat from the sun reaches people's washed clothes hanged on a wire.
Radiation process

The diagram below shows a structure of a worm use it to answer questions 5 and 6.



5. Name part marked U from the diagram above.
Hooks
6. To which group of worms do we categorize the worm shown in the diagram above?
Flatworms

How do plants contribute to the rain cycle?

plants carry out transpiration which contributes to the rain cycle.

Which breed of cattle is characterized by having short or no horns?

Beef breed Exotic breeds

State one law of refraction.

The incident ray, refracted ray and the normal ray at the point of incidence lie on the same plane

2. Give the importance of putrefying bacteria to a crop farmer.

Putrefying bacteria helps in decomposition

They help in recycling of nitrogen from dead organic matter.

1. What happens when an object vibrates?

Sound is produced.

2. Name the immunisable disease spread by cockroaches to people.

Polio

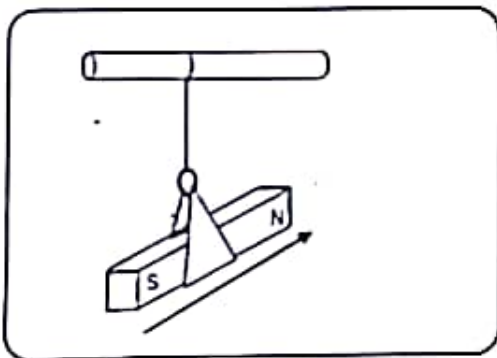
3. Why are toads regarded as cold blooded animals?

Toads change their body temperature according to the temperature of surrounding // Toads do not have constant body temperature

4. Apart from meat, name one other product got from Angora rabbits.

Fur

The diagram below shows the property of magnets. Use it to answer questions 15 and 16.



Name the property of magnets shown in the diagram above.

The freely suspended bar magnet rests in North-South direction.

How is the property of magnets named in (15) above useful to pilots in doing their daily work?

It enables pilots to locate direction of places

Give any one responsibility of the family members to a pregnant woman.

To feed them on a balanced diet // To wash for them //

Encouraging the pregnant women to go for Antenatal Care

7. Name the part of the lungs where gaseous exchange takes place.

Alveoli // Air sacs

3. State the first aid for scalds.

Dip the injured part in clean boiled ^{Cold} water for atleast five minutes.

1. Give any one factor that can lead to bottle feeding a baby.

When the mother has breast cancer.

1. Which type of family has the parents, biological children and relatives?

Extended family

Section B (60 Marks)

1. (a) Give two ways how animals can be used as energy resources.

(i) Animal dung and urine are used to produce biogas

(ii) Some animals provide people with meat.

(b) Mention any two animal products used when producing biogas.

(i) Cow dung

(ii) animal urine // animal droppings

1. (a) Give two responsibilities of the following in promotion of PHC in the community.

(i) Individual.

Washing clothes // Brushing teeth // Sweeping

(i) Organising immunization sites

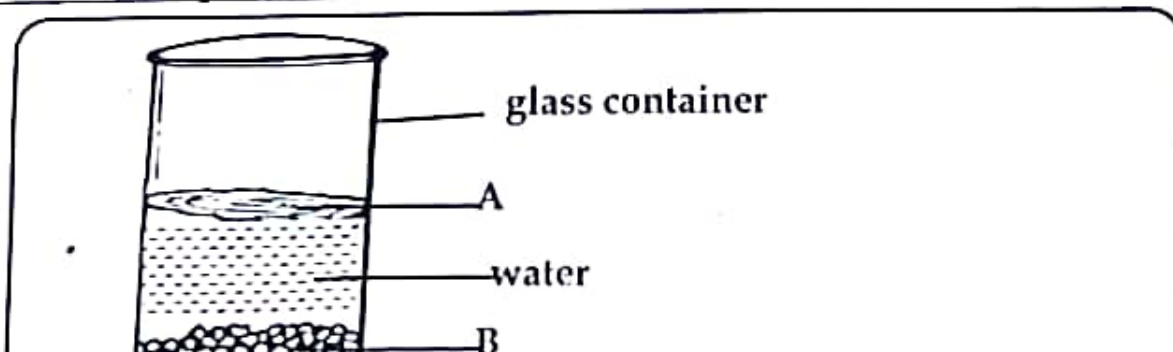
(ii) Educating people about importance of immunization.

(ii) Family - Teaching family members good health habits

(i) Family members taking children for immunization.

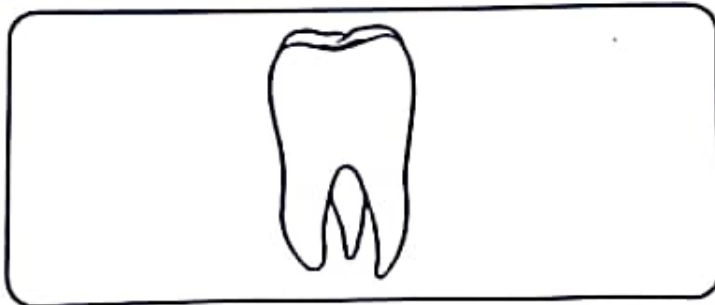
(ii) Feeding family members on a balanced diet.

The diagram below shows a glass container into which a mixture of saw dust, water and sand were poured. The mixture settled as shown. Study it carefully and answer questions that follow.



26. How are bones marked Y above important to the body?
They protect lungs and the heart.
Bones marked Y protect
27. To what type of change is melting of candle wax?
Physical change
28. Give one disadvantage of draining swamps to the environment.
It leads to death of aquatic animals // Leads to flood
// Leads to drought.
29. Name the force that makes objects weigh less in water.
Upthrust force // Buoyancy
30. State the use of perches to fowls in a coop.
Perches help to keep birds busy
For resting on // For playing on to reduce boredom.
31. Give one way of preventing the spread of Covid 19.
By wearing masks // By sanitizing // By washing hand
with clean water and soap // Keeping social distance
32. Mention one plant growth requirement absorbed from the soil through the root
Mineral salts // Water
33. Which type of electricity is generated by the help of fast flowing water?
Hydro-electricity // Hydroelectricity.
34. Give a reason why vitamins and mineral salts are not digested in the body.
They are Soluble

The diagram below is of a tooth. Use it to answer questions 35 and 36.



35. Name the type of tooth shown in the diagram above.
Molar tooth
36. State the importance of the tooth named in (35) above.
It is used to grind food

18. Why should vaccines be kept in cool containers before usage?

To prevent them from losing their preventive values

19. State the use of a dustbin when promoting proper sanitation.

A dustbin is used for dumping in rubbish// For proper disposal of rubbish

20. Give any one effect of diarrhoea to human beings.

Diarrhoea leads to dehydration

Diarrhoea leads to loss of mineral salts e.g. Sodium/potassium

21. Name any one respiratory disease caused due to smoking tobacco.

Lung cancer, Emphysema

22. How is friction useful to Aaron who is a butcher?

Friction helps Aaron to cut meat

Friction helps Aaron to sharpen cutting tools.

*23. Which vitamin maintains the appetite of a human being?

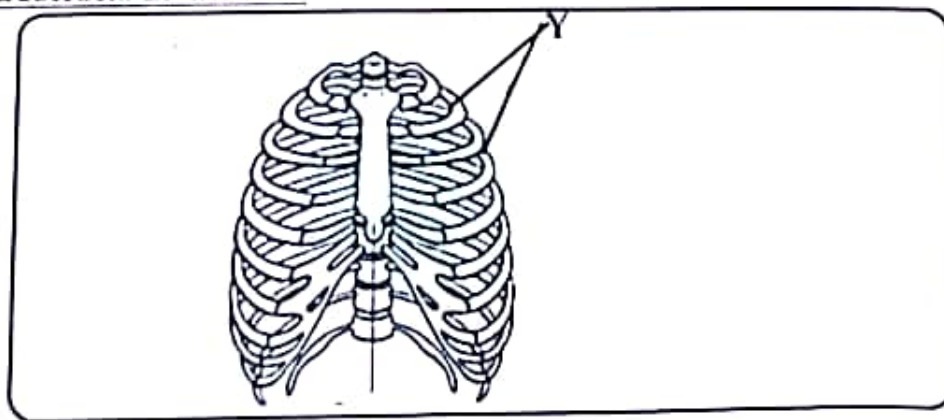
Vitamin B

24. State one adaptation of red blood cells to their function.

Red blood cells contain haemoglobin that transports

Oxygen/ Red blood cells have no nuclei to increase space for carrying oxygen.

The diagram below shows part of the human skeleton. Use it to answer questions 25 and 26.



25. Name the type of bones marked Y from the diagram above.

Flat bones

(a) Which of the two substances are represented by;

(i) A saw dust // sand (ii) B Sand

(b) Name the method of separating mixtures shown in the diagram above.

Flotation method // Flotation

(c) Why is substance A settled on water?

Substance A is less dense than water.

Substance A has less density than water

Water is more dense than substance A

(a) How do ferns reproduce?

Ferns reproduce by means of spores

(b) Mention two plants that reproduce in the same way like ferns.

(i) Mosses // Lichens

(ii) Liverworts // Horse-tail // hornworts

(c) Give a reason why mushrooms are not classified as plants.

Mushrooms do not have chlorophyll.

Match the following ways of promoting personal hygiene in A to their importance in B.

A

(i) Washing hands

(ii) Brushing teeth

(iii) Cutting finger nails short

(iv) Removing ear wax.

B

to remove hiding places for germs.

to prevent partial deafness.

to kill germs in the mouth.

to remove germs.

(i) Washing hands

to remove germs.

(ii) Brushing teeth

to kill germs in the mouth.

(iii) Cutting finger nails short

to remove hiding places for germs.

(iv) Removing ear wax

to prevent partial deafness.

- ~~By decreasing the height to be covered by the lead.~~ By reducing the effort needed to overcome the ^{load}.
- (b) If the load moves through a length of 200m on an inclined plane of height 40m, find the mechanical advantage. (03 marks)

$M.A = \frac{\text{Effort distance}}{\text{Load distance}}$ $M.A = \frac{200m}{40m}$	$M.A = 5$	$M.A = \frac{\text{Length of the slope}}{\text{Height of the slope}}$ $= \frac{200m}{40m}$ $= \frac{50}{10}$	$M.A = 5$
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(a) Give any two dangers of poor sanitation.

- (i) poor sanitation leads to spread of diarrhoeal diseases
 (ii) poor sanitation leads to bad smell of the environment
 It leads to contamination of water and food.

(b) Mention two diseases spread due to poor sanitation.

- (i) Cholera // Typhoid (ii) Diarrhoea // Dysentery

(a) Give the meaning of the following terms.

(i) Health is a state of being physically, socially, economically and mentally well

Health is a state of being physically, emotionally, mentally and spiritually well.

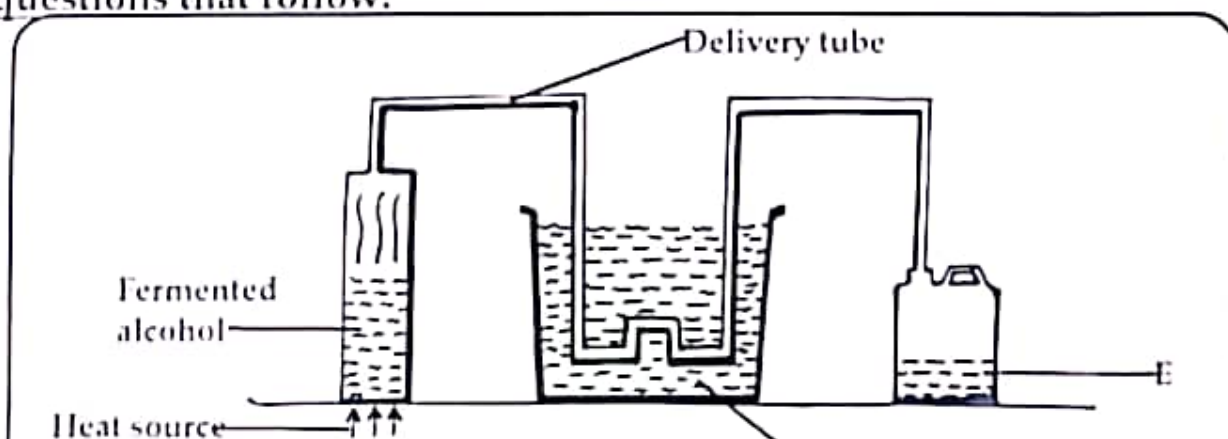
(ii) Community

Community is a group of people working or living together.

(b) Mention any two examples of common health problems in the community.

- (i) Disease outbreak // Inadequate food supply
 (ii) Poor water supply // Poor sanitation // Antisocial behaviour

The diagram below shows a method of making methyl. Use it to answer questions that follow.



a) Name the method of making alcohol shown in the diagram above.

Distillation method

b) Which name is given to substance E?

Distillate

c) Why is a delivery tube coiled in water?

To increase the surface area for Condensation to take place.

d) State the reason why the above method of making alcohol is not allowed at home.

It can lead to accidents like scalds

(a) Name two examples of;

(i) dairy breeds of goats

(i) Saanen goats

(ii) Toggenburg goats // Alpine goats

(ii) meat breeds of goats

(i) Galla goats // Somali goats

(ii) Mubende goats // Boar goats

(a) Give a reason why land preparation is done during dry season.

There is enough sunshine to dry weeds in the garden

(b) Write down any two ways of preparing land.

(i) By clearing bush in the land

(ii) By digging

(c) Why is bush burning discouraged during land clearing?

Bush burning kills living organism which help to aerate the soil.

a) Give any two emotional changes in adolescents.

i) High demands for freedom among adolescents

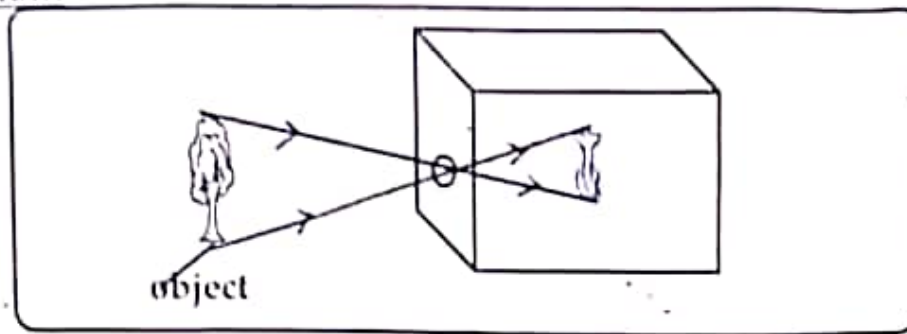
ii) Adolescents always rebel against culture.

b) Name two types of reproduction in living organisms.

i) Sexual reproduction

ii) Asexual reproduction

3. The diagram below shows a pinhole camera. Use it to answer questions that follow.



- (a) State the principle on which a pinhole camera works.
It works on the principle that light travels on the straight line.
- (b) Give two characteristics of images formed by a pinhole camera.
- (i) Images are inverted // Images are real
- (ii) Images are diminished
- (c) Complete the pinhole camera shown in the diagram above by drawing the image formed.
54. (a) Name any two types of soil erosion.
- (i) Gully erosion // sheet erosion (ii) Rill erosion // splash erosion
- (b) How does mulching control soil erosion?
Mulches reduce the speed of ^{fast} flowing water
- (c) State the best way of controlling soil erosion in hilly areas.
By practising terracing // contour ploughing // strip cropping
55. Write PIASCY in full.
Presidential Initiative on AIDS Strategy Communication to the Youth
- (b) State the main reason for establishment of PIASCY.
To prevent youths from contracting AIDS
- (c) Give any two PIASCY messages.
- (i) Avoid bad touches // AIDS kills
- (ii) AIDS has no cure // Say No to Sex