

SECTION A (MARKS 26)

1. Choose the letter of the correct answer from the four options (A–D) and write it in the box.

i) Which is a list of animals that are dangerous to human beings?

- A. Bees and snakes
- B. Butterfly and lizard
- C. Cockroach and grasshopper
- D. Butterfly and bee

The correct answer is A. Bees and snakes. Bees can harm human beings by stinging and causing pain or allergic reactions, while snakes are dangerous animals because of their venom which can cause serious harm or death.

ii) When you look into a mirror you see your image. Which phenomenon causes that image to appear?

- A. Refraction of light
- B. Absorption of light
- C. Production of light
- D. Reflection of light

The correct answer is D. Reflection of light. An image is seen because light reflected from the face returns to the eyes after hitting the mirror.

iii) I did not realize that he was boiling water in an electric kettle. After 30 minutes all the water had boiled and dried up. Which change of matter occurred?

- A. Liquid to gas
- B. Gas to solid
- C. Solid to liquid
- D. Gas to liquid

The correct answer is A. Liquid to gas. When water received a lot of heat it changed into water vapour, which is a gas.

iv) For a plant to grow it needs water, sunlight, and moderate temperature. What other thing is needed?

- A. Shade
- B. Wind
- C. Soil
- D. Air

The correct answer is C. Soil. Soil helps to support the plant and provides important nutrients for its growth.

v) Light energy comes from natural and artificial sources. Identify one natural source.

- A. Candle
- B. Electricity
- C. Sun
- D. Lamp

The correct answer is C. Sun. The sun is a natural source of light and produces light without being made by human beings.

2. Answer items (i)–(v) by matching the functions of the human digestive system in List A with the corresponding parts in List B. Write the letter of the correct answer in the brackets provided.

List A

- (i) Produces acid that helps to kill germs in food and aids digestion ()
- (ii) Stores food for a short time ()
- (iii) Absorbs water and minerals ()
- (iv) Passes softened food to the stomach ()
- (v) Stores food waste ()

List B

- A. Stomach

- B. Mouth
- C. Oesophagus
- D. Large intestine
- E. Rectum
- F. Liver
- G. Stomach walls

(i) The correct answer is A. Stomach. The stomach produces acid that kills germs and helps in digesting food.

(ii) The correct answer is A. Stomach. The stomach temporarily stores food before further digestion.

(iii) The correct answer is D. Large intestine. The large intestine absorbs water and minerals from food remains.

(iv) The correct answer is C. Oesophagus. The oesophagus passes softened food from the mouth to the stomach.

(v) The correct answer is E. Rectum. The rectum stores food waste before it is expelled from the body.

3. Answer items (a)–(e) by choosing the correct disease from the box and writing it in the space provided.

Cancer, Schistosomiasis, AIDS, Chickenpox, Malaria, Cholera, Asthma

a) Which disease is transmitted through air or by touching an infected person?

The answer is Chickenpox. This disease spreads through air or by direct contact with an infected person.

b) Which disease is spread by flies?

The answer is Cholera. Flies spread cholera germs by contaminating food and water.

c) Which disease is caused by plasmodium?

The answer is Malaria. Plasmodium is a parasite that causes malaria.

d) Which disease is transmitted through worms from snails?

The answer is Schistosomiasis. This disease is caused by worms found in water that contains snails.

e) Which disease is caused by abnormal growth of body cells?

The answer is Cancer. Cancer results from uncontrolled growth and multiplication of body cells.

SECTION B (MARKS 24)

4. Read the passage and answer the questions related to it in items (a)–(e).

a) What was the aim of the experiment conducted by pupils of Lokome Primary School?

The aim of the experiment was to investigate the importance of water in seed germination.

b) Mention two items that were used to conduct the experiment.

The items used were maize seeds and soil.

c) Why did the seeds in container “X” fail to germinate?

The seeds in container “X” did not germinate because they were not watered, yet water is essential for germination.

d) The act of pupils wanting to know why the seeds failed to germinate represents which step of a scientific experiment?

That step is identifying the problem in a scientific experiment.

e) What did you learn from the experiment described in the passage?

I learned that water is very important for seed germination and growth.

5. Study the following pictures then answer items (a)–(e).

a) Identify the activities shown in pictures A and B.

A. Carrying garbage

B. Sweeping

b) Mention the name of the tool used in pictures A and B.

A. Wheelbarrow

B. Broom

c) If the tool used in picture A is not available, which part of the body can you use to do the work?

The body part that can be used is the hand, although it is not safe and not recommended.

d) Which other tools can be used to do the work shown in picture A? Mention two tools.

i) Shovel

ii) Basket

e) What is the scientific importance of the tools shown in pictures A and B?

These tools help human beings to work more easily, faster, and more safely by applying scientific principles such as force and motion.