

(A) Tick the correct option:

1. Roof of the forest made by the branches of the tall trees is called:

- (a) canopy
- (b) crown
- (c) understory
- (d) none of these

2. The amount of heat produced in a wire depends on:

- (a) material of wire
- (b) length of wire
- (c) thickness of wire
- (d) all of these

3. Which of the following is used as a side view mirror?

- (a) Plane mirror
- (b) Concave mirror
- (c) Convex mirror
- (d) Convex lens

4. The branchy part of a tree above the stem is called:

- (a) leaves
- (b) crown
- (c) saplings
- (d) canopy

5. Sequence that represents the series of eating and being eaten is called:

- (a) food series
- (b) food chain
- (c) food web
- (d) food hub

6. A virtual image

- (a) can be formed on the screen
- (b) cannot be formed on the screen
- (c) is formed only by the plane mirror
- (d) is formed only by the convex mirror

7. Which of the following is a stage in wastewater treatment?

- (a) Filtration
- (b) Aeration
- (c) Chlorination
- (d) All of the above

8. It generates a force which pulls up water absorbed by the roots from the soil to reach the stem and leaves. It is -

- a) Transpiration
- b) Transportation
- c) Respiration
- d) Gaseous exchange

9. To prevent entry of food into the trachea, the opening is guarded by-

- a) epiglottis
- b) glottis
- c) pharynx
- d) larynx

10. Identify the correct word from the given options to complete the food chain.

Grass → _____ → frog → snake → eagle

- (a) insects
- (b) rabbit
- (c) goat
- (d) all of the above

(B) Fill in the blanks:

- a) The change of sides of an object and its mirror image is called
- b) The micro-organisms which convert the dead plants and animals to humus are known as _____.
- c) A current carrying coil of an insulated wire wrapped around a piece of iron is called an _____.
- d) In the absence of oxygen, glucose breaks down into _____ and _____.
- e) The small bulb-like projection coming out from the yeast cell is called a _____.
- f) _____ is decomposed by anaerobic bacteria
- g) _____ is the mature ovary whereas ovule develops into a _____.

(C) Write true or false:

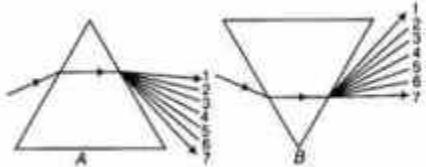
- 1. A flower is always bisexual.
- 2. Pollen grains are transferred from anther to the filament in the process of pollination.
- 3. The clot is formed due to the presence of platelets.
- 4. The two lower chambers of the heart are called the atrium.
- 5. Kidneys filter the waste materials from the blood.
- 6. The excretory product in birds and lizards is urea.

(D) Very short answer questions

- 1. Is the distilled water acidic/basic/neutral? How would you verify it?
- 2. Paheli remembered that she saw a Pipal sapling on the sidewall in her school. Can you help her to understand how this would have happened?
- 3. Why is chlorine added to wastewater?
- 4. What are the advantages of CFL over bulb?
- 5. Assume, a person is standing in front of a plane mirror. The distance between the mirror and his image is 6 m. If the person moves 2 m towards the plane mirror, what would be the distance between the person and his image?

(E) Short answer questions

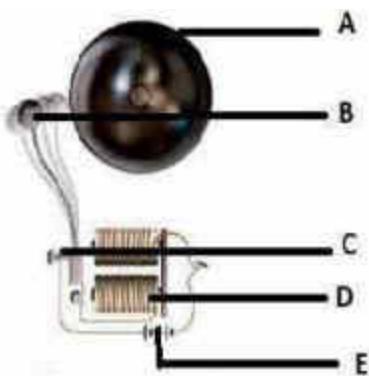
- 1. Rekha's teacher has given her soft iron and steel to make an electromagnet. She is confused that which material she should select. Suggest Rekha to choose the right material and give reason that why should she select the material suggested by you?
- 2. State the correct sequence (1-7) of colours in the spectrum formed by the prisms A and B shown in the figure.



3. Why air is pumped into clarified water?

(F) Long Answer Questions

1. The terms sewage, sewers and sewerage are interlinked with each other. Can you explain, how?
2. X and Y are the two types of organism which are found in the forest. X eats up dead animals while Y breaks down the body of the dead animals into simpler substances.
 - a. What is the general name of organism X.
 - b. Write one example of X.
 - c. Write one example of Y and state the type of organism it is?
 - d. What is the importance of the process of breakdown done by Y?
3. Write the differences between:
 - a. Concave and convex mirror
 - b. Concave and convex lens
 - c. Real and virtual images
4. Answer the questions given based on the figure:



- (a) Name the given diagram.
- (b) Label the given diagram (A, B, C, D & E).
- (c) Write the effect on which the device works.
- (d) Define D Write the factors on which the strength of D depends.

5. Identify and name the given figures and name the parts labeled as A, B, C & D

