

Subject- Science
Practice Assignment-3

Q1 Which of the following statements is not correct?

- (i) Forests protect the soil from erosion.**
- (ii) Plants and animals in a forest are not dependent on one another.**
- (iii) Forests influence the climate and water cycle.**
- (iv) Soil helps forests to grow and regenerate.**

Q2 Q.13. Micro-organisms act upon the dead plants to produce

- (i) sand (ii) mushrooms (iii) humus (iv) wood**

Q3 Which of the following does a forest not do?

- a) Supply oxygen**
- b) Cool the air**
- c) decrease rainfall**
- d) None of these**

Q4 The lowest layer in the understory is formed by-

- a) Shrubs b) Herbs c) Trees d) Tall grasses**

Q5 The distance between two stations is 240 km. A train takes 4 hours to cover this distance. Calculate the speed of the train.

Q6 The odometer of a car reads 57321.0 km when the clock shows the time 08:30 AM. What is the distance moved by the car, if at 08:50 AM, the odometer reading has changed to 57336.0 km? Calculate the

speed of the car in km/min during this time. Express the speed in km/h also.

Q7 Salma takes 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/min, calculate the distance between her house and the school.

Q8 Show the shape of the distance-time graph for the motion in the following cases :

(i) A car moving with a constant speed.

(ii) A car parked on a side road.

Q9 Explain uniform and non-uniform motion.

Q10 What do you mean by time period and frequency.

Q11 An electrician is carrying out some repairs in your house. He wants to replace a fuse by a piece of wire. Would you agree? Give reasons for your response.

Q12 Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.

Q13 Explain why there is no waste in a forest.

Q14 Explain the role of forest in maintaining the balance between oxygen and carbon dioxide in the atmosphere.

Q15 Case study:-

Keep a compass needle on a table. It will point in the north-south direction. Lay a copper wire beneath it. Connect the two ends of the wire to a battery.

a) When the current is switched on through a wire, a compass needle kept nearby gets deflected from its north-south position. Explain.

b) Explain two effects of electric current.

c) Draw in your notebook the symbols to represent the following components of electrical circuits: connecting wires, switch in the 'OFF' position, bulb, cell, switch in the 'ON' position and battery.

Q16 Source based:-

A forest is a large area covered with a thick growth of trees, shrubs, herbs, grasses, creepers and climbers. The types of plants found in different forests vary, depending on the climatic conditions.

a) Explain how forest prevent floods.

b) What are decomposers? What do they do in the forest?

c) List five products we get from forests.