Lesson – 7

Solids, Liquids and Gases

1. Tick (V) the correct answer:
a. Water exists in forms.
Ans. iv. Three
b. When water is frozen, it becomes
Ans. i. Ice
c. Steam is this form of water
Ans. iii. Gaseous
d. The molecules are the most closely packed in
Ans. Solids
2. Fill in the blanks:
a. Pieces of ice are solid and have a definite shape.
b. The gases have no definite volume, shape or size.
c. Matter has mass and it occupies space.
d. Water flows easily, because it is a liquid.
3. Answer the following questions:
a. What is matter?
Ans. Anything that occupies space and has weight is called matter.
b. Write any two differences between liquids, solids and gases.

Ans. Solids:-(i) Have fixed shape.

(ii) Have fixed volume.

Liquids :- (i) Do not have fixed shape.

(ii) Have fixed volume.

Gases:- (i) Do not have fixed shape.

(ii) Do not have fixed volume.

c. Define (i) evaporation (ii) condensation.

Ans. Evaporation:- The change of water into water-vapour on heating.

Condensation:- The change of water-vapour into water on cooling.

d. Differentiate between melting and freezing.

Ans. Melting:- The process of changing a solid into liquid.

Freezing:- The process of changing a liquid into a solid.

4. Put these objects in the correct columns.

SOLIDS	LIQUIDS	GASES
Cake	oil	oxygen
Car	petrol	nitrogen
Table	milk	carbon-dioxide

Lesson 8

Some Properties of Water

- 1. Tick (V) the correct answer.
- a. A universal solvent is

Ans. ii. Water				
b. Water has a fixed				
Ans. ii. Volume				
c. In a sugar solution, sugar is the				
Ans. i. Solute				
d. Water is				
Ans. iv. All of these				
2. Put these substances in	the correct column:			
Soluble Substances	Insoluble Substances			
Salt	Oil			
Sugar	Sand			
Coffee powder	Petrol			
Lime juice	Stone			
3. Write True or False:				
a. Things heavier than wa	False			
b. Water exerts a buoyan	True			
c. Salt will dissolve faster in cold water than warm water. Fal				
d. An iron nail will float in a bucket of water.				
4. Answer the following q	uestions:			
a. Why does an object sin	k or float in water?			
Ans. Things that are lighte	er than water float in water.			
Things that are heavier th	an water sink in water.			

b. Explain the terms Solute, Solvent and Solution.

Ans. Solute - A substance that dissolves in water.

Solvent – A liquid in which a solute dissolves.

Solution – A liquid formed when the solute completely dissolves in the solvent.

c. Distinguish between soluble and insoluble substances.

Ans. Soluble substances dissolve in water while insoluble substances do not dissolve in water.

d. What is buoyancy?

Ans. The upward force exerted by water on objects immersed in it.

Lesson 9

Water As A Resource

- 1. Tick (V) the correct answer:
- a. The change of water to water vapour is called

Ans.ii. Evaporation

b. An example of a water-borne disease is

Ans.i. Cholera

c. An example of soluble impurity present in water is

Ans.i. Germs

d. Evaporation is faster when it is

Ans.iv. All of them

2. Match the following:

a. Soluble impurity in water iii. Boiling

b. Evaporation iv. Heat

c. Insoluble impurity ii. Filtration

i. Cooling d. Condensation

3. Fill in the blanks:

a. Decantation is done after the process of Sedimentation.

b. A candle filter helps to filter water.

c. Adding chlorine to drinking water kills germs.

d. Water is precious and should not be wasted.

4. Answer the following questions:

a. Distinguish between evaporation and condensation.

Ans. Evaporation: Change of water to water vapour on heating.

Condensation: Change of water vapour to water on cooling.

b. Briefly explain the water cycle.

Ans. Water circulates naturally between water bodies present on the earth and the atmosphere in the form of a cycle called water cycle. Drops of water join together and form clouds. When cloud become heavy, they fall down as rain. Rain water fills lakes, rivers and oceans. This cycle goes on in nature.

c. How can soluble impurities be removed from water?

Ans. By boiling and chlorination.

d. What is rainwater harvesting?

Ans. Collecting rainwater and using it later is called rainwater harvesting.

e. What is chlorination?

Ans. Adding chlorine to drinking water to make it safe for drinking is called chlorination.