WATER DPP-1

1. Fill in the blanks spaces by choosing the correct words from the given list:

	lis	st-: soluble, stirred, dissolved, saturated	d, heating		
		(a) when a solid disappears in water,	the solid is said to be		
			more of a solute at a given temperature, is called		
		(c) The solute should be	in the solvent for the quick formation of solution.		
			perature can be changed to unsaturated solution be		
		(e) The substances which dissolve ra	pidly in water are called substances.		
2.	sta	tements given below are incorrect. V	Write the correct statements.		
		(a) The substances which dissolve ve	ry little are called soluble substances.		
		(b) Dissolved gases in water provide	softness to water.		
		(c) In the summer, the fishes die in shallow ponds in the wanting of sufficient food.			
		(d) When concentration of salt reach	es 35 g per litre of sea water, the concentration		
		starts increasing rapidly.			
		(e) Starch solution and egg albumin i	n water are examples of solution.		
3.	Tic	k the most appropriate answer			
	A.	A solution which cannot dissolve mor	e of a solute at a given temperature is called		
		(a) unsaturated solution			
		(b) saturated solution			
		(c) supersaturated solution			
		(d) any of these			
	B.	The substances which dissolve rapidly	y in water are called.		
		(a) insoluble substances	(c) soluble substances		
		(b) super soluble substances	(d) none of these		
	C.	C. The size of solute particles is of order of 10-8 cm or less in			
		(a) solution	(c) suspension		
		(b) colloid	(d) none of these.		
	D. In which of the following the particles of solute can be separated by the process of				
		filtration?			
		(a) solution	(c) suspension		
		(b) colloid	(d) All the abov		
	E.	Which of the following is translucent	in nature?		
		(a) solution	(c) suspension		
		(b) colloid	(d) none of these.		

WATER DPP-3

- 1. (a) What is meant by water of crystallisation?
 - (b) How would you show that copper sulphate crystals contain water of crystallisation?
- 2. By giving two examples define the following terms:
 - (a) Hydrated substance
 - (b) Anhydrous substance
 - (c) Hygroscopic substance
- 3. Write balanced equations when
 - (a) sodium metal is dropped in cold water.
 - (b) calcium metal is dropped in cold water.
 - (c) steam is passed over heated magnesium metal
 - (d) steam is passed over heated iron metal
- 4. Define the following terms:
 - (a) Soft water
 - (b) Hard water
 - (c) Temporary hard water
 - (d) Permanent hard water
- 5. (a) Name two chemicals which are responsible for temporary hardness of water.
 - (b) Name four chemicals which are responsible for permanent hardness of water.
- 6. How dies water get temporary hard in nature?
- 7. (a) How can you remove temporary hardness of water? Write relevant chemical equation in support of your answer.
 - (b) How can you remove permanent hardness of water? Write relevant chemical equation in support of your answer.

WATER DPP-2

1. Fill in the blanks spaces by choosing the correct words from the given list:

list-: soft, hydrated, crystallisation, water, activity

(a)	a) The fixed number of water molecules, that are	e in loose combination with on	ıe
	molecules of a salt, is called water of		

- (b) Hydrated copper sulphate contains
- (c) Crystal of some substances have fixed number of water molecules, such substances are known as.......
- (d) The list of metals arranged in the order of their chemical activity, is called metal..... series.
- (e) A sample of groundwater, which freely lathers with soap solution, is called...... water.

2. write TRUE or FALSE for the following statement

	Statement	TRUE /
37		FALSE
1	On strong heating crystals crumble to form powdery mass.	A V C R
2	Crystals having fixed number of water molecules are known as anhydrous substances.	5
3	Some substances have a tendency to absorb moisture from air and change into solution.	
4	Sodium is the most reactive metal among the metals.	
5	Hard water is unfit for drinking purposes, as it upsets stomach.	

3. Tick the most appropriate answer.

A.	The fixed number of water molecules attached loosely with one molecules attached
	loosely with one molecule of a substance is known as water of

(a) activation

(c) evaporations

(b) crystal

(d) crystallisation

B. Crystals having fixed number of water molecules are known as

(a) anhydrous substances

(c) deliquescent substances

(b) hydrated substances

(d) hygroscopic substances

C. The substances which absorb moisture from air, but do not change their state are called

(a) crystals

(c) hygroscopic substances

(b) deliquescent substances

(d) hydrated substances

D. Metal like magnesium, Zinc and iron on heating react with steam to form hydrogen gas and their respective

(a) hydroxides

(c) hydrides

(b) oxides

(d) none of these

E. If water has magnesium chloride dissolved in it, for examining its cleansing action, it is to be considered as

(a) soft water

(c) temporary hard water

(b) permanent hard water

(d) hard water