: 99672 40893



Fill in the blanks:

8.

Jars Education

Shop no. 2,3,4 hendre pada Badlapur west thane

Total Marks: 50 STD 9 Science Time: 1 hour 30 Minute **Chapter Based Test** section A Choose the correct option from the given options [7] Rusting of an article made up of iron is called: (A) Corrosion and it is (B) Dissolution and it (C) Corrosion and it is (D) Dissolution and it a physical as well as is a physical change. a chemical change. is a chemical change. chemical change. Which of the following statements are true for pure substances? 2. Pure substances contain only one kind of particles. ii. Pure substances may be compounds or mixtures. Pure substances have the same composition throughout. iii. Pure substances can be exemplified by all elements other than nickel. iv. (B) (i) and (iii) (C) (iii) and (iv) (A) (i) and (ii) Two chemical substances X and Y combine together to form a product P which contains both X and Y $X + Y \rightarrow P$ X and Y cannot be broken down into simpler substances by simple chemical reactions. Which of the following statements concerning X, Y and P are correct? i. P is a compound. ii. X and Y are compound. X and Y are elements. iii. P has a fixed composition. iv. (A) (i), (ii) and (iii) (D) (i), (iii) and (iv) (B) (i), (ii) and (iv) (C) (ii), (iii) and (iv) 4. The common characteristic of suspension and colloidal solution is: (A) Both are (B) The particles of (C) The particles of (D) The particles do heterogeneous. both can pass through both are visible to not settle at the filter paper. naked eye. bottom under gravity. Which one of the following is a suspension: (A) Mud in water (B) Saltwater (C) Blood (D) None of these 6. Which one of the following is not a metalloid? (A) Boron. (B) Silicon. (C) Gallium. (D) Germanium. Which of the following is not an element? (A) Graphite. (B) Germaniumcc. (C) Silica. (D) Silicon. * Fill in the blank with correct answer [4]

	A mixture of two or more miscible liquids, for which the difference in the boiling points is less than 25K can be separated by the process called	
9.	Fill in the following blanks with suitable words: Immiscibl liquids are separated by using a	
10.	Fill in the following blanks with suitable words: The three important metalloids are and	
11.	Fill in the following blanks:	
	Milk is a solution but vinegar is a solution.	
*	Do as directed	[3]
12.	What is meant by saying that metals are lustrous?	
13.	Name the process by which common salt is obtained from sea-water	
14.	Name the property:	
	Which allows metals to be hammered into thin sheets.	
	section B	
*	Answer the Questions in brief	[10]
1.	Define dispersion medium.	[10]
2.	What is the difference between colloids and suspensions?	
3.	Can we separate alcohol dissolved in water by using a separating funnel? If yes, then	
	describe the procedure. If not, explain.	
4.	Classify the following into elements and compounds: i. H ₂ O ii. He iii. Cl ₂ iv. CO	
_	v. Co	
5.	How will you distingu <mark>ish a colloid from a solution?</mark>	
	section C	
*	Answer the Questions in detail	[12]
1.	What is a physical change? Give an example of physical change.	
2.	Mention the three characteristics of a mixture.	
3.	What is chromatography? State its two applications.	
4.	How will you separate a mixture of cooking oil (groundnut oil) and water?	
	section D	
*	Answer the Questions in detail [5 marks each]	[10]
1.	What is fractional distillation? What is the use of fractionating column in fractional distillation?	- •
2.	How will you separate camphor, common salt and iron nails from their mixture?	
	[c]	

Section E

* case study based quetion.

[4]

- 1. 100ml of water at room temperature of 25°C is taken in a beaker and a little of solid S is dissolved in it by stirring to obtain a solution X. More and more of solid S is added to the solution with constant stirring, while keeping the temperature of solution constant at 30°C. After some time it is observed that no more solid dissolves in water and at the same time some solid is also left undissolved at the bottom of the beaker. The contents of beaker are filtered through a filter paper to obtain solution Y in the form of a filtrate.
 - a. What name is given to solutions like X?
 - b. What name is given to solution like Y?
 - c. What will you observe if the solution Y at 30°C is cooled down to 10°C by keeping the beaker in crushed ice? Why?
 - d. What term is used to denote the amount of solid dissolved in 100 grams of water in a solution like Y?

