

## INDIAN SCHOOL DARSAIT DEPARTMENT OF CHEMISTRY



Su	bject : CHEMISTRY	Topic : IS MATTER AF PURE	ROUND US	Date of Workshee	et: 28.08.2019	
Re	source Person: Mrs. Sa	andhya Jitheesh				
Na	me of the Student :		Class & Di	vision : IX	Roll Number :	
1	Define pure substar	nce from the chemist's po	int of view. I	s milk a pure subst	ance?	1
2	Pure substances are a) Elements and co c) heterogeneous n	ompounds b) Compoun	ds and homo	ogeneous mixtures		1
3	Explain the meanin	g of the term solubility.				1
4	Which of the follow	ving is separated by fraction	onal distillati	ion?		1
	a) Gases present in	air b) Salt solution c)	Water and ac	cetone d) Copper	sulphate solution	
5	Differentiate between solute and solvent.					1
6	Smoke and fog, both are aerosols. In what way are they different?					1
7	Why filter paper cannot be used to separate colloidal particles?					1
8	Classify the follows	ing into elements and com	pounds.			1/2
	a. H <sub>2</sub> O b. He	c. Cl <sub>2</sub> d. Co e. CO <sub>2</sub>	f. Cu	g. FeS h. Fe	i. S	marl each
9	Explain why particles of a colloidal solution do not settle down when left undisturbed, while in the case of a suspension they do so?					
10	What is the name o	f the clear liquid formed v	when a solid	dissolves in a liqui	d?	1
11	Classify the following into solutions, suspensions and colloids: (½ mark each) (Soda water, Milk, Brine, Blood, Smoke in air, Ink, Chalk-water mixture, Milk of magnesia, Shaving cream)					
12	Name the process associated with the following					1
	b) Settling of sand	to separate cream from it. when a mixture of sand a ght entering through a sma eath.	nd water is			marl each
13	Can we separate ald	cohol dissolved in water b	y using a sep	parating funnel? W	Thy?	1

14	technique will you apply to separate the mixture of 'A' and 'B' if the difference in their boiling point is 15 <sup>o</sup> C?		
15	<ul> <li>What would you observe when</li> <li>a) Saturated solution of potassium chloride prepared at 60°C is allowed to cool to room temperature.</li> <li>b) If carbon disulphide is added to a mixture of iron filings and sulphur powder.</li> </ul>	1 mark each	
16	Calculate the amount of glucose required to prepare 250 g of 5% solution of glucose by mass.	2	
17	Iron filings and sulphur were mixed together and divided into two parts, A and B. Part A was heated strongly while part B was not heated. Dilute hydrochloric acid was added to both the parts and evolution of gas was seen in both the cases. How will you identify the gases evolved?		
18	A solution contains 20 g of sodium chloride in 180 g of water. Calculate the concentration.	2	
19	Calculate the amount of water required to prepare 500 g of 2.5% solution of sugar.	2	
20	Classify the following as physical and chemical changes. Give reason for your answer.  (a) Burning of Candle (b) Melting of Ice (c) Burning of petrol in an engine	2	
21	Non- metals are usually poor conductors of heat and electricity. They are non-lustrous, non-sonorous and non-malleable  a) Name a lustrous non-metal.  b) Name a non-metal which exists as a liquid at room temperature.  c) The allotropic form of a non-metal is a good conductor of electricity. Name the allotrope.  d) Which non-metal is known to form large number of compounds	2	
22	State the principle of each of the following methods of separation of mixture.  a. Centrifugation method b. Separation using separating funnel c. Separation by chromatography	3	
23	How can we obtain different gases from air? Explain with the help of a flow diagram.	3	