Science For Class IX Is Matter Around Us Pure

<1M> $(Q.1)$ <#> Name the process which can be used to recover sugar from an aqueous sugar solution . <\$>
(Q.2) <#> What happens when a saturated solution is heated ? <\$>
(Q.3) <#> Name the process you would use to separate a mixture of water and alcohol. <\$>
(Q.4) <#> Give an example of an aqueous solution in which gas is dissolved. <\$>
(Q.5) <#> What is the cause of Tyndall effect as shown by colloid ? <\$>
(Q.6) <#> Give two examples of colloidal solution . <\$>
(Q.7) <#> Name the technique to separate -
(a) Salt from sea water (b) Butter from curd <\$>
 (Q.8) <#> When a paper is burnt it is considered a chemical change because (A) The change is permanent. (B) There is no change in mass. (C) The chemical composition changes. (D) Both (1) and (3)
(Q.9) <#> An aqueous solution at room temperature was heated and some more solute was added to it. It was observed that after sometime solution could not dissolve any more of the solute. The solution now formed is called
(A) Saturated solution.(B) Super saturated solution.(C) Unsaturated solution.(D) Homogeneous solution.
(Q.10) <#> A mixture of iron filings and sulphur powder can be separated using (A) A magnet (B) Handpicking (C) Carbon disulphide solution (D) Both (1) and (3) <\$>
(Q.11) <#> A mixture of chalk powder and water can be separated using the technique of filtration because
 (A) Chalk powder remains suspended in water. (B) They form a miscible solution. (C) The mixture can easily pass through filter paper (D) Water acts as a good solvent. <\$>
(Q.12) <#> The necessary condition for separation of the components of a mixture regarding the boiling points of the components of a mixture of two or more miscible liquids is (A) Their boiling points should be same

(B) Their boiling points should be less than 373 K.

(C) Their boiling points should differ by (D) The boiling point of one of the composite states (\$>\$		hould be 373 K.	
(Q.13) <#> To check whether a given ac(A) Heat the solution(C) Add more water to the solution<\$>	(B) Cool	alt solution is satura I the solution more salt to the so	
(Q.14) <#> A mixture of salt and iodine(A) The mixture starts melting.(C) Iodine is left behind.<\$>	(B) Salt	I in a china dish. A fo is left behind in the hing happens.	
(Q.15) <#> Crystallization is considered because	better th	nan evaporation for	obtaining pure crystal of sugar
(A) On heating sugar can burn.(C) Sugar particles will decompose.<\$>		ar particles will evap ar particles will melt	
(Q.16) <#> Which is the only metal tha	t exists ir	n liquid state at roor	n temperature?
(A) Sodium (B) Mercury <\$>		(C) Germanium	(D) Gallium
(Q.17) <#> Why is inter-conversion of s (A) Because state changes from one for (B) Because a change in temperature is (C) Because the chemical composition of (D) Because they have same physical pro- <\$>	rm to and required of the sub roperties.	other. l. ostance remains und	
(Q.18) <#> Separating cream from milk (A) filtration (B) Centrifugation mack <\$>		using (C) Evaporation	(D) Boiling
(Q.19) <#> The dispersed phase of a col (A) Solute (B) Solvent <\$>	lloid is sir	milar to (C) Solubility	of a solution. (D) Concentration
(Q.20) <#> A mixture			
(A) Has a fixed composition.(C) Has a fixed melting point.<\$>		s not have a fixed m pure substance.	elting point.
(Q.21) <#> When a suspension is left ur (A) Some larger solute particles settle d (B) All the solute particles settle down. (C) It absorbs the light rays passing thro (D) It turns into a true solution. <\$>	lown at tl		
(Q.22) <#> The concentration of solute (A) Homogeneous mixture (C) Suspension	(B) Hete	remains same thro erogeneous mixture n (1) and (2)	

(Q.23) <#> Tyn	dall effect and E	Brownian mover	ment are exhibite	ed by	
		(B) Colloid			
(C) Suspension		(D) Suspension and colloid both		:h	
<\$>					
(0.24) <#> \$ ar	nd Fe are heated	d together to pro	enare FeS. Comp	osition in the ratio S:Fe by mass is	
(A) 4:7	(B) 3:7	(C) 4:8	(D) 3:8	osition in the ratio sire by mass is	
<\$>	(2) 3.7	(0)	(2) 3.3		
\ \$\rightarrow\$					
(0.25) <#> The	size of particle	s in a true soluti	on is less than		
	· ·	(C) 10 ⁻⁷ m	(D) 10 ⁻⁹ m		
<\$>	(6) 10 111	(6) 10 111	(5) 10 111		
'					
(Q.26) <#> The	e necessary con	dition to be spe	cified while expr	essing solubility is	
(A) Temperatu	re (B) Pro	essure (C) Bo	oiling point	(D) Atomic number of solute	
<\$>					
(Q.27) <#> The	e principle behir	nd fractional dis	tillation techniqu	ie in separation of two liquids is	
	in Melting point		fference in Boilir	ng point	
(C) Difference i	in Concentratio	n (D) Di	ifference in Soluk	pility	
<\$>					
(0.20) 6.1					
				addition of which of the following solvent	
(A) Carbon disu	ulphide	(B) Water	(C) Alcohol	(D) Sulphuric acid	
<\$>					
(O 20) 4#5 Cal	b: :+ af a aaa :				
		n a liquid increa			
. ,	temperature.	• •	ecreasing pressu		
	oressure.	(D) No effect	of temperature a	and pressure.	
<\$>					
(O 20) 445 The		عد امان ما ماه		- :-	
(Q.30) <#> The	e non-metai wn	ich is ilquid at re	oom temperature	e IS -	
(A) Chlorine	(B) Bromine	(C) Iodine	(D) Fluorine		
<\$>	(b) bromme	(c) lounc	(b) Haorine		
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
(Q.31) <#> So	ap solution is ar	n example of			
(A) Sol	(B) Foam	(C) Emulsion	(D) Gel		
<\$>	,	. ,	, ,		
(Q.32) <#> Sol	vent in air is				
(A) Nitrogen	(B) Oxygen	(C) Carbon Did	oxide (D) Ar	gon	
<\$>					
(Q.33) <#> Dis	persed phase a	nd dispersion m	edium in a jelly a	reand, respectively.	
(A) Solid, liquid	l (B) Liquid, soli	d (C) So	olid, solid (D) Lic	quid, Liquid	
<\$>					
(-	
•		_	ow tyndall effect		
(A) Smoke	(B) Salt solution	on (C) Alloys	(D) Aerated di	rinks	
<\$>					
(0.35) 44. 144	tob of the fell	ulog oog will be t	I finet divisies C	tional distillation of sing	
•			_	tional distillation of air?	
(A) Oxygen	(R) Mitrogen	(C) Argon	(D) None of th	e above	
<\$>					
(Q.36) <#> Wh	nat type of solut	ion are allovs?			

(A) Solids in liqu	ids (B) Liq	uids in solids	(C) Solids in sol	ids (D) Liquids in liquids	5
(Q.37) <#> Size (A) 10 ⁻⁸ m <\$>	•	of a solution is (C) 10 ⁻⁷ m	less than: (D) 10 ⁻¹	¹⁰ m	
	id having liquic (B) Gel	l dispersed in liq (C) Emulsion	uid is called: (D) Aer	osol	
points				liquids having difference in t	heir boiling:
(Q.40) <#> Nam (A) Sodium <\$>		•	om temperature. (D) Magnesium		
(Q.41) <#> Meta (A) Metals can b (C) Metals prod	e drawn into w	vires		be hammered into sheets good conductors	
<\$>					
(A) Sodium <\$>	(B) Silv	• ,		•	
<\$>					
(Q.49) <#> Wha	nt is crystallizati	on ?			
(Q.50) <#> Defi <\$>	ne colloid.				
(Q.51) <#> Wha	at is meant by a	suspension ?			
(Q.52) <#> Wha <\$>	t is a saturated	solution ?			
(Q.53) <#> Defin	ne Solution.				
(Q.54) <#> Wha	at is meant by a	mixture ?			
(Q.55) <#> Wha <\$>	t do you unders	stand by a pure s	substance ?		
(Q.57) <#> Defir <\$>	ne Alloys ?				
<2M>					

(Q.43) <#> Which process would you use to separate colours in a dye? Define the process. <\$>
(Q.44) <#> Classify the following into elements , compounds and mixtures- (a) Soil, (b) Magnesium (C) Salt solution (d) carbon dioxide (e) Gold (f) Methane <\$>
(Q.45) <#> Fog and cloud are both colloidal in nature . How do they differ ? $^{<\!$
(Q.46) <#> How would you confirm that a colourless liquid given to you is pure water? <\$>
(Q.47) <#> What is sublimation ? Give examples. <\$>
(Q.58) <#> What is What is chromate graphy? Write any two applications of it.
<\$> (Q.71) <#> To make a saturated solution, 42g of sodium chloride is dissolved in100 g of water at 293 Find its concentration at this temperature. <\$>
<#> What is solubility? What is the effect of change of temperature on the solubility of a salt. <\$>
<3M> (Q.59) <#> A solution has been prepared by dissolving 5 g of urea in 95 g of water. What is the mass
percent of urea in the solution?
(Q.60) <#> A compound is regarded as a pure substance but a mixture is not. Give reasons. <\$>
(Q.61) <#> How will you separate a mixture of mercury, water and benzene ? <\$>
(Q.62) <#> Distinguish between physical changes and chemical changes. <\$>
(Q.63) <#> Differentiate between homogeneous and heterogeneous mixtures. <\$>
(Q.64) <#> What are the two types of pure substances ? Explain. <\$>
(Q.65) <#> Give the properties of a colloid ? <\$>
(Q.66) <#> A solution contains 20 g of common salt in 160 g of water. Calculate the concentration in terms of mass and mass percentage of the solution.
(Q.67) <#> Give three examples of solution and mention its solute and solvent. <\$>

(Q.70) <#> What are the properties of a true solution. <\$>	
<#> What are the properties of a suspension? <\$> <#>Name the process used for separation of the following mixtures i) Gases from air (ii) Cream from milk (iii) Colours in a die (iv) Kerosene oil and water v) Sand and Ammonium Chloride vi) Acetone and water vi) <\$> 	
<#> How will you obtain different gases from air? Explain by drawing a flow diagram <\$>	
<5M> (Q.68) <#> Distinguish between compound and mixture. <\$>	
(Q.69) <#> How will you separate iron filings, ammonium chloride and sand from their mixture ? <\$>	
<#>What are the applications of crystallization <\$>	
<#> Describe the process by which you will obtain the pure crystals of copper sulphate from the impusample. In which way crystallization is better technique than evaporation <\$>	ıre