Multiple Choice Questions (MCQs)

CLASS: VIII SUBJECT: CHEMISTRY

Chapter - 1

	<u>onaptor</u>				
Question 1)	Which is the formula given by Albert Einstein? (a) $E = mc^2$ (b) $E = m^2c$	(c) $M = Ec^2$	(d) F = ma		
Question 2)	On heating, the kinetic energy of the particles –	creases	(4) 1 1114		
		ither increases nor decrease	76		
Question 3)	All matter composed of many submicroscopic part		,,,		
2000	(a) atom (b) ions	(c) molecules	(d) all of these		
Question 4)	According to Einstein, matter can be converted int	0 –			
	(a) mass (b) energy	(c) (a) and (b)	(d) none of these		
Question 5)	In which state of matter molecules have no definit				
O	(a) solid (b) liquid	(c) gas	(d) (b) and (c)		
Question 6)	The magnitude of the force between the molecule	•	(d) donsity		
Question 7)	(a) direction (b) distance In which state of matter the force of attraction bet	(c) space tween molecules is negligible	(d) density		
Question 7)	(a) solid (b) liquid	(c) gas	(d) (b) and (c)		
Question 8)	The phenomenon of change of one state of matter				
•	(a) condensation (b) inter conversion	(c) sublimation	(d) interaction		
Question 9)	The process of changing solid into liquid on heating				
	(a) Freezing (b) melting	(c) vaporization	(d) condensation		
Question 10)	The process of changing liquid into solid on cooling		(-1)		
Ougstion 11)	(a) Melting (b) sublimation The phenomenon of changing gas into liquid –	(c) freezing	(d) vaporization		
Question 11)	(a) Freezing (b) melting	(c) vaporization	(d) condensation		
Question 12)	The process of changing of the solid directly into g				
	(a) Melting (b) Sublimation	(c) Freezing	(d) Condensation		
Question 13)	Law of conservation of mass is given by –	· · ·	. ,		
	(a) Lavoisier (b) Maxwell	(c) John Dalton	(d) Albert Einstein		
Question 14)	Which of the following occupy the shape and volume		()		
Ougstion 15)	(a) Solids (b) Liquids	(c) Gases	(d) all of these		
Question 15)	The gases can be compressed easily because of – (a) enough space between the molecules (b) les	ss snare hetween molecules	:		
		of these	,		
Question 16)	In which year Albert Einstein got the Nobel Prize?				
•	(a) 1980 (b) 1672	(c) 1943	(d) 1921		
Question 17)	In which state of matter the force of attraction is n				
Ougation 10)	(a) Solid (b) liquid	(c) gas	(d) all of these		
Question 18)	The force of attraction is minimum in – (a) Solid (b) liquid	(c) gases	(d) none of these		
Question 19)	Which of the following state of matter consists sup	. , 0			
,	(a) Solid (b) liquid	(c) gas	(d) plasma		
Question 20)	The plasma is created in stars because of -				
	(a) Very low temperature (b) very high temperature		(d) b and c		
Question 21)	Which of the following is the fifth state of matter?		(4) DEC		
Question 22)	(a) liquid (b) gas The temperature at which liquid state changes into	(c) plasma	(d) BEC		
Question 22)	(a) melting point (b) boiling point	(c) freezing point	(d) none of these		
Question 23)	The phenomenon of vaporization is responsible fo		· /		
	(a) solid into liquid (b) liquid into solid	(c) liquid into gas	(d) gas into solid		
Question 24)	Mass remains conserved during chemical reaction				
	(a) Law of constant composition (b) law of mult (c) law of conservation of mass (d) Dalton's law				
Question 25)	(c) law of conservation of mass (d) Dalton's law The BEC is prepared by cooling a gas of –	V			
Question 25)	(a) extremely high temperature (b) extremely le	ow density			
	(c) extremely high density (d) low temper	-			
	<u>Chapter – 2</u>				
	onapter				
Question 1)	In which kind of change substance undergoes char	nge in its physical properties	;?		
	(a) Physical (b) Chemical	(c) both (a) and (b)	(d) None of these		
Question 2)	When the water is heated, it changes into –	(c) acc	(d) none of these		
Question 3)	(a) ice (b) steam The chemical composition of water is –	(c) gas	(d) none of these		
euconon a)	(a) 2 atoms of hydrogen and 2 atoms of oxygen	(b) 2 atoms of hydrogen	and 1 atom of oxvoen		
	(c) 3 atoms of hydrogen	(d) 3 atoms of oxygen	, ,		

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Which of the following is not a chemical change ?

Question 4)

Question 4)	Which of the following is not a chemical char	•	() ()
Ougation []	(a) digestion (b) melting	(c) rusting of iron	(d) rotting of eggs
Question 5)	Which of the following is a chemical change (a) melting (b) freezing	(c) evaporation	(d) cooking of food
Question 6)	Which of the following is a physical change?		(d) cooking of food
Question of	(a) condensation (b) digestion	(c) burning of paper	(d) ripening of fruits
Question 7)	Which of the following is the characteristic of		(a) Tipering of Truits
Question 1)		(b) formation of new substance	
	•	(d) permanent	
Question 8)	In which of the following change composition		?
,		(b) chemical change	
	(c) irreversible change	(d) reversible change	
Question 9)	Substances that react to form new substance		
	(a) reactants (b) products	(c) chemicals	(d) none of these
Question 10)	Substances that are formed during a chemica	•	(1)
Question 11)	(a) reactants (b) products A permanent change which involves the form	(c) chemicals	(d) none of these
Question 11)	(a) Physical change (b) chemical change		(d) a and c
Question 12)	Which of the following is a physical change?		(a) a and c
Question 12)	(a) rusting of iron (b) formation of cu		hor (d) rooting of eggs
Question 13)	In nature, liquid water slowly converts into vi		(1)
,	(a) evaporation (b) melting	(c) sublimation	(d) condensation
Question 14)	In which change, the original substance loses	s its own composition and proper	ties to give rise to new
	Substances?		
	(a) physical change (b) reversible char		(d) periodic change
Question 15)	When a chemical reaction takes place with the		
Ougation 1()		hange (c) reversible change	(d) irreversible change
Question 16)	The reaction that involves the absorption of I (a) exothermic reaction (b) endothermic reaction	neat energy is called – eaction (c) physical reaction	(d) chemical reaction
Question 17)	When wax of the burning candle burns, a che		• •
Question 17)	(a) water vapours (b) carbon dioxide	· ·	(d) all of these
Question 18)	The chemical name of rust is	(6) 11641	(a) an or those
,	(a) hydrated iron oxide (b) iron oxide	(c) iron sulphide	(d) none of these
Question 19)	A chemical change is a permanent and		
	(a) reversible change (b) temporary cha		(d) all of these
Question 20)	In which change energy is either absorbed or		
0 11 04)	(a) chemical change (b) physical change		(d) endothermic change
Question 21)	The total mass of the substances involved in		(d) do aro acco
Question 22)	(a) changed (b) unchanged Rusting of iron is a –	(c) increases	(d) decreases
Question 22)	(a) slow change (b) fast change	(c) reversible change	(d) physical change
Question 23)	Physical changes are permanent and –	(b) reversions undrige	(a) priyotal orlango
•	(a) can be reversed (b) cannot be reve	ersed (c) a and b	(d) none of these
Question 24)	Which of the following process is a slow proc	cess?	
	(a) evaporation (b) vaporization	(c) a and b	(d) Melting
Question 25)	When two or more substances are mixed, an		(8)
	(a) physical reaction (b) chemical reaction	ion (c) exothermic reaction	(d) endothermic reaction
	Cha	ntor 2	
	Cila	<u>pter – 3</u>	
O	A substance comment of the comment o		officite and author to
Question 1)	A substance composed of two or more eleme (a) mixture (b) compound	ents, chemically combined in a di (c) a and b both	(d) none of these
Question 2)	Homogeneous solid made up of an element of	• •	(d) Horie of these
Question 2)	(a) sediment (b) solution	(c) crystal	(d) none of these
Question 3)	A substance made up of identical atoms –	(o) or yotal	(a) Horie of these
,	(a) compound (b) element	(c) mixture	(d) crystal
Question 4)	The process used to separate an insoluble so	lid from a liquid –	.,,
	(a) filtration (b) decantation	(c) crystallization	(d) distillation
Question 5)	Method separating the pure liquid without d		
	(a) Distillation (b) decantation	(c) filtration	(d) crystallization
Question 6)	Components of more than one substance cor	mbine in any proportion, original	properties of the components
	are retained in –	(d) clamant	(d) all of these
Ougstion 7	(a) mixture (b) compound Mothod used to separate a mixture of a liqui	(d) element	(d) all of these
Question 7)	Method used to separate a mixture of a liqui (a) Decantation (b) Filtration	d and a soluble solid where the i	iquid is required – (d) crystallization
Question 8)	Method of separating a pure solid in the forn	• •	• • •
edostion oj	(a) crystallization (b) filtration	(c) distillation	(d) separation
Question 9)	The technique is used to separate magnetic a	* *	· · · · ·
,	(a) Magnetic separation (b) filtration	(c) distillation	(d) sieving
			-

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Question 10)	Which of the following method used, to separate wheat flour from bran –			
•	(a) sieving	(b) winnowing	(c) decantation	(d) none of these
Question 11)	The method used to sepa	arate grain particles such a	s rice and wheat from smal	I stones.
	(a) sieving	(b) filtration	(c) hand picking	(d) winnowing
Question 12)	This method is based on	the different in size, shape	or colour of solid particles	in the mixture –
	(a) hand picking	(b) sieving	(b) filtration	(d) winnowing
Question 13)	This method is based on	the different in size of the	solid particles in the mixtur	re –
	(a) handpicking	(b) sieving	(c) winnowing	(d) filtration
Question 14)	This method is based on	the difference in weight of	the solid particles of the m	nixture –
	(a) handpicking	(b) sieving	(c) filtration	(d) winnowing
Question 15)	Which method is based of	on the difference in sublima	able and non-sublimable s	ubstances in the mixture.
	(a) Evaporation	(b) Distillation	(c) sublimation	(d) all of these
Question 16)			ammoniums chloride from	mixture of ammonium
	Chloride and sodium chlo			
	(a) Evaporation	(b) sublimation	(c) distillation	(d) decantation
Question 17)	•	n of liquid component fron		
	(a) filtration	(b) sublimation	(c) evaporation	(d) distillation
Question 18)		separate salt from salt sol		
	(a) evaporation	(b) filtration	(c) distillation	(d) sublimation
Question 19)		g fine suspended solid part	icles from a solid – liquid m	nixture by rotating mixture
	in a centrifuge is –			
	(a) centrifugation	(b) distillation	(c) distillation	(d) none of these
Question 20)	•	different poling points car		
	(a) fractional distillation		(c) filtration	(d) sublimation
Question 21)		rith difference in densities a		
	(a) separating funnel	(b) centrifugation	(c) filtration	(d) fractional distillation
Question 22)	·	ne oil from mixture of keros		
	(a) sieve	(b) separating funnel	(c) centrifuge	(d) filter paper
Question 23)	tion 23) It is based on the difference in solubility of solids in a liquid –			
	(a) filtration	(b) crystallization	(c) centrifugation	(d) fractional distillation
Question 24)	Method used to separate			
	(a) centrifugation	(b) filtration	(c) distillation	(d) sieving
Question 25)	•	e clay particles from water		
	(a) sieving	(b) winnowing	(c) filtration	(d) distillation

<u>Chapter – 4</u>

Question 1)	Anu made up of sub parti	cles are known as –		
·	(a) atoms	(b) elements	(c) paramanu	(d) molecules
Question 2)	Who has belived that the	anu made up to parmanu	?	
	(a) Dalton	(b) J.J. Thomson	(c) Maharishi Kanada	(d) Einstein
Question 3)	Atoms are divisible into fu	urther smaller particles are	_	
	(a) electrons and protons	(b) protons and neutrons	(c) electrons, protons and	d neutrons (d) none of these
Question 4)	Electrons, protons and ne	eutrons are known as –		
	(a) subatomic particles	(b) electrodes	(c) a and b	(d) none of these
Question 5)	The positive terminal of t	he electrode is called –		
	(a) cathode	(b) anode	(c) a and b both	(d) none of these
Question 6)	The negative terminal of	the electrode is called -		
	(a) cathode	(b) anode	(c) a and b both	(d) none of these
Question 7)	Which of the following is	positively charged particle	?	
	(a) electron	(b) proton	(c) neutron	(d) none of these
Question 8)	Which of the following is	negatively charged particle	?	
	(a) electron	(b) proton	(c) neutron	(d) none of these
Question 9)	The mass of an electron is			
	(a) 9.11×10 ⁻³¹ kg	(b) 9.12×10 ⁻³¹ kg	(c) 9.40×10 ⁻³¹ kg	(d) 9.11×10 ⁻³⁸ kg
Question 10)	The mass of proton is equ			
	(a) oxygen	(b) hydrogen	(c) nitrogen	(d) none of these
Question 11)	The mass of proton is –			
	(a) 1.672×10 ⁻²⁷		(c) 1.68×10 ⁻³⁷	(d) 1.82×10- ³⁰
Question 12)	A chemical reaction in vo			
	(a) combination	(b) separation	(c) rearrangement of ator	ms (d) all of these
Question 13)	The mass of neutron is –			
	(a) 1.675×10 ⁻²⁷ kg	(b) 8×10 ⁻⁸ kg	(c) 1.670×10 ⁻²⁷ kg	(d) 8.5×10 ⁻³⁰ kg
Question 14)	Neutrons and protons are			
	(a) orbits	(b) nucleus	(c) both a and b	(d) none of these
Question 15)		electrons revolve around th		
	(a) Thomson	(b) William Crooke	(c) Maharishi Kanada	(d) Neil Bohr
Question 16)		om is equal to the number		(8)
	(a) electrons	(b) neutrons	(c) protons	(d) a and b

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Question 17)	Protons and neutrons, together, are called –			
	(a) nucleus	(b) nucleons	(c) atomic number	(d) atomic mass
Question 18)	Mass number of an atom is defined as the sum of –			
	(a) Protons and electrons	(b) electrons and neutron	s (c) protons and neutrons	(d) none of these
Question 19)	The distribution of electrons revolving in the different orbits of an atom is called –			
	(a) electronic configuration	n (b) arrangement	(c) a and b both	(d) none of these
Question 20)	Atomic number of oxygen element –			
	(a) 9	(b) 6	(c) 3	(d) 8
Question 21)	The outermost shell of an atom is known as the –			
	(a) closest shell	(b) valence shell	(c) orbit	(d) none of these
Question 22)	In the formation of a compound, attractive forces are called -			
	(a) intermolecular force	(b) electrostatic force	(c) chemical bonds	(d) none of these
Question 23)	The atom that gains electrons becomes negatively charged ions –			
	(a) cation	(b) anion	(c) compounds	(d) valence electrons
Question 24)	Valency of calcium atom is –			
	(a) 3	(b) 4	(c) 2	(d) 1
Question 25)	Metals react with non- metals to form stable compounds are called –			
	(a) ionic compounds	(b) ions	(c) a and b both	(d) none of these