## **ONE MARK TEST-I**

SUBJECT: CHEMISTRY			TIME: 45 MINTS		
STD: XI	(BOOK BACK I	FULL PORTION)	<b>MARKS</b> : 50		
CHOOSE THE CO	ORRECT ANSWER		50 X 1 = 50		
	oxides, namely carbon n f which element remains		ioxide. The		
	xygen c) both carbon a				
	following is used as a sta				
(a) ${}_{6}C^{12}$	(b) $_{7}C^{12}$	(c) ${}_{6}\mathbf{C}^{13}$	(d) $_{6}C^{14}$		
3 7.5 g of a gas occu	pies a volume of 5.6 litre	es at 0o C and 1 atm pr	ressure. The gas is		
a) NO	b) N <sub>2</sub> O	c) CO	d) CO <sub>2</sub>		
	Bohr Theory, which of the least energetic photon		s in the hydrogen atom		
•	b) $n = 5$ to $n = 4$		d) $n = 6$ to $n = 5$		
	cupying the same orbital		$\mathbf{u}$ ) $\mathbf{n} = 0$ to $\mathbf{n} = 0$		
	11 0		n number		
a) azimuthal quan		b) spin quantum			
c) magnetic quant		d) orbital quant			
•	mber of electrons in a su				
a) $2n^2$	b) 21 + 1 c)		d) none of these		
shell of atoms are	nents in which the differe called	entiating electron enter	is the anti penultimate		
a) p-block elemen	its b) d-block elements	c) s-block elements	d) f-block elements		
8. Which of the follo	owing elements will have	the highest electroneg	gativity?		
a) Chlorine	b) Nitrogen	c) Cesium	d) Fluorine		
9. In the third period	the first ionization poter	ntial is of the order.			
a) $Na > Al > Mg$	-	b) Na < Al < M	Ig < Si < P		
c) $Mg > Na > Si >$		d) Na< Al < M			
,	the order of screening eff	,			
_	b) $s > p > f > d$		d) $f > p > s > d$		
· -	lowing statements about	•	•		
	I <sub>3</sub> O <sup>+</sup> exists freely in solut	•			
	ree isotopes of which trit				
	acts as cation in ionic sa				
12. Tritium nucleus					

a) 1p + 0n b) 2p + 1n c) 1p + 2n d) none of these

13. The type of H	-bonding present in o	ortho nitro phenol	and p-nitro phenol are respectively		
a) inter molecular	r H-bonding and intra	a molecular H-bor	nding		
b) intra molecular	H-bonding and inter	molecular H-bon	ding		
c) intra molecular	H - bonding and no	H - bonding			
d) intra molecular	H - bonding and intr	ra molecular H - b	onding		
14. Non-stoichion	netric hydrides are fo	ormed by			
a) palladium, va	nadium	b) carbon, nick	el		
c) manganese, lithium		d) nitrogen, chlorine			
15. odium is store	d in				
a) alcohol	b) water	c) kerosene	d) none of these		
16. Lithium show	s diagonal relationsh	ip with			
a) sodium	b) magnesium	c) calcium	d) aluminium		
17. The suspension	n of slaked lime in w	vater is known as			
a) lime water	b) quick lime	c) milk of lime	d) aqueous solution of slaked lime		
18. Rate of diffusi	ion of a gas is				
a) directly proport	tional to its density	b) directly prop	ortional to its molecular weight		
c) directly proport	tional to its square ro	ot of its molecular	r weight		
d) inversely propo	ortional to the square	root of its molecu	lar weight		
19. When an ideal	l gas undergoes unres	strained expansion	a, no cooling occurs because the		
molecules					
a) are above inv	ersion temperature	b) exert no	attractive forces on each other		
c) do work equal	to the loss in kinetic	energy d) col	lide without loss of energy		
20. The temperature pressure is cal		es obey the ideal	gas laws over a wide range of		
a) Critical temperature		b) Boyle t	b) Boyle temperature		
c) Inversion ten	nperature	d) Reduce	d temperature		
21. The amount of	f heat exchanged wit	h the surrounding	at constant temperature and pressure		
is given by the	quantity				
a) $\Delta E$	b) $\Delta H$	c) $\Delta S$	d) ΔG		
22. The intensive	property among the	quantities below is	8		
a) mass	b) volume	c) enthalpy	d)mass/volume		
23. Heat of combi	ustion is always				
a) positive	b) negative	c) zero	d) either positive or negative		
24. The correct th	ermodynamic condit	ions for the sponta	aneous reaction at all temperature is		
a) $\Delta H < 0$ and $\Delta S$	$> 0$ b) $\Delta H < 0$ and	$\Delta S < 0$ c) $\Delta H >$	0 and $\Delta S = 0$ d) $\Delta H > 0$ and $\Delta S > 0$		
25. Solubility of c	arbon dioxide gas in	cold water can be	e increased by		

a) increase in pressure b) decrease in pressure c) increase in volume d) none of these

26. Which one of the	following is incorre	ct statement?	
a) for a system at equi	librium, Q is alway	s less than the equi	librium constant
b) equilibrium can be	attained from either	side of the reactio	n
c) presence of catalyst extent	affects both the for	ward reaction and	reverse reaction to the same
d) Equilibrium consta	ant varied with tem	perature	
27. An equilibrium co	•		ans, the equilibrium is
a) largely towards for			rds reverse direction
c) never established		d) none of thes	
<i>'</i>	librium, the rate co	· ·	ard reaction is $2.5 \times 10^2$ and the
equilibrium constan			
-		$\frac{2 \times 10^2}{2 \times 10^2}$	d) $2 \times 10^{-3}$
,	,		pendent of temperature
		mole fraction	-
•	,		ssolved in 250g of water is
a) 0.2 M		c) 0.02 M	d) 0.04 M
,	· /		r pressure for a solution is
equal to	its law, the relative	lowering of vapou.	i pressure for a solution is
a) mole fraction of so	olvent b)	mole fraction of se	olute
c) number of moles of	of solute d	number of moles	of solvent
32. The Van't Hoff fac	ctor (i) for a dilute a	queous solution of	f the strong elecrolyte barium
hydroxide is			
a) 0 b	) 1	c) 2	d) 3
33. The ratio of numb	er of sigma (σ) and	pi (л) bonds in 2-	butynal is
a) 8/3 b)	5/3	c) 8/2	d) 9/2
34. Which one of the	following is diamag	gnetic.?	
a) $O_2$ b)	$O_2^{2-}$	c) $O_2^+$	d) None of these
35. Non- Zero dipole	moment is shown by	у	
a) CO2 b)	p-dichlorobenzene	c) carbontetrach	loride d) water
36. Which one of the	following names do	es not fit a real na	me?
a) 3 – Methyl –3–he		b) 4–Methyl –3–	
c) 3– Methyl –3– he		d) 2– Methyl cy	
37. Which one of the			
	•	c) ethanol	d) CH2Cl2
38. Which of the follo	-	·	
	• •		artaric acid d) Glucose
39. The isomer of etha		,	,
a) acetaldehyde	b) dimethylether	c) acetone	d) methyl carbinol

40. Hyper Conjugation	n is also known as					
(a) no bond resonance (b) Baker - nathan effect (c) both (a) and (b) (d) none of these						
41. Homolytic fission	of covalent bond to	the formation of				
(a) electrophile	(b) nucleophile	(c) Carbo cation	(d) free radical			
42. The geometrical sl	nape of carbocation	is				
a) Linear	b) tetrahedral	c) Planar	d) Pyramidal			
43. Which of the following is optically active						
a) 2 – methyl pentane	e b) citric acid	c) Glycerol	d) none of of these			
44. $Cis - 2$ – butene at	-100 d trans $-2$ – butane	are				
a) conformational isomers b) structural isomers						
c) configurational is	omers	d) optical isomers				
45. Which one of the	following is non a	romatic?				
a) [	ь) [[					
	TT.					
c) (_s	d) <u> </u>					
16 C V hand is at non	and in					
46. C -X bond is stron						
a) Chloromethane	b) Iodomethane	c) Bromomethane	d) Fluoromethane			
47. Freon-12 is manuf	actured from tetrach	nloro methane by				
a) Wurtz reaction	b) Swarts reaction	c) Haloform reaction	on d) Gattermann reaction			
48. The raw material f	or Rasching process					
a) chloro benzene	b) phenol	c) benzene	d) anisole			

c) 5.6

a) Carbon dioxide b) Carbon tetra chloride c) Carbon monoxide d) Carbonic acid

49. Haemoglobin of the blood forms carboxy haemoglobin with

b) 7.5

50. The pH of normal rain water is

a) 6.5

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d) 4.6