Class: 11			Register	X I II	
		Revision	Examination Number	2019-20	ortes
Time Allowed: 3.00	Hours]	СН	EMISTRY Section - I	TO BEED & C. T. S.	11

Tim	e Allowed : 3.00 Hours CHEN	IIS'		PO S	[Max: Marks: 70
Not	te: i) Answer all the questions			1.00	15 x 1 = 15
	ii) Choose the most suitable answe	r fro	m the given four	r alt	
	option code and the correspondir				dead so a ros 9 la section
1.	Carbon form two oxides, namely carbon mono			. The	Equivalent mass of which
	element remains constant.		Select Spanish		
	a) C b) O		C and O	d)	Neither C nor O
2.	Which of the following is the least eletronegati			Regar	Action tubulos and a tribute and
2	a) Bromine b) Chlorine	(c)	lodine	. d)	Hydrogen
3.	The hybridisation of oxygen atom in H ₂ O and H ₂	O ₂ ar	e respectively	100	003 1003
4.	a) SP ³ and SP ³ b) SP and SP The general valence shall electronic configure	tion o	f alkali matala ia	a)	SP ³ and SP ²
	The general valence shell electronic configura a) ns² b) ns¹-²		ns ¹	4)	ns ¹⁻⁶
5.	Which of the following statments are incorrect		113	u)	IIS
	(i) Sodium metal is used in organic qualitation		alvsis		
	(ii) Hydrogen has three isotopes of which pro	tium i	s the most commo	n.	Hoerward Macaletics (4)
	(ii) Hydrogen has three isotopes of which pro (iii) The maximum number of electron presen	t is L-	shell = 18	a arit	of to which seems of the
	(iv) The maximum number of electrons that of	an be	accomodated in a	give	n orbital is 2(2I+2)
	a) (i) (iv) b) (i) (iii)	c)	(i) (ii)	d)	(iii) (iv)
6.	Maximum deviation from ideal gas is expected	from	The Part of the Part	Arth	maticanical allegers
	a) $CH_{4(g)}$ b) $NH_{3(g)}$		H _{2(g)}	d)	N _{2(g)}
7.	AS is expected to be maxium for the reaction		-(9)		
1	a) $Ca_{(s)} + \frac{1}{2}O_{2(g)} \rightarrow CaO_{(s)}$	b)	$C_{(s)} + O_{2(g)} \rightarrow C($	02(0)	
	c) $N_{2(g)} + O_{2(g)} \rightarrow 2NO_{(g)}$	(b)	CaCO _{3(s)} → CaO	+	co
8.	Which of the following reaction will be favoure			(S)	²⁽⁹⁾
0.					
	a) $N_{2(g)} + 3H_{2(g)} \ge 2NH_{3(g)}$		$N_{2(s)} + O_2 \rightleftharpoons 2N$		
	c) $H_{2(g)} + I_{2(g)} \rightleftharpoons 2HI_{(g)}$	(d)	PCI _{5(g)} PCI _{3(g)}	+ CI,	
9.	Assertion: An ideal solution obeys Raoults I		Also Also		
10 0 1	Reason: In all ideal solution, solute - solv	ent as	well as solute - s	olute	interactions are similar to
	solute - solvent interactions.				
*	a) Both assertion and reason are true and r				
1	b) Both assertion and reason are true but re				
40	c) Assertion is true but reason is false		Both assertion ar	nd re	ason are false.
10.		26 WU!	SOLVEN SORRELLE	SOUTH ST	OD: 12
	a) Trigonal bipyramidal SP ³ d ³	0)	Trigonal bipyrami	idal,	SP° d2
11	c) Pentagonal bipyramidal SP ³ d ³ Match the following.	a)	Pentagonal bipyr	amia	al, SP° 0°
	1 Secondary Amine - (i) (CH ₃) ₃ C - O	Н	AND LAID HUGUSIAN TO		The state of the state of
	2 Secondary Alcohol - (ii) CH ₃ -3H ₂ -1		that he was borner brace		ing sweet L
	2 Secondary Alcohol - (iii) CH ₃ - CH ₂ - 3 Primary Amine - (iii) (CH ₃) ₂ NH	. 2	BERTON STATE TO THE	pt -9	Ne snatividito
1	4 Tertary Alcohol - (iv) CH, - CH - C	CH - C	H,		
	CH, C	HC	bres of residential	Manus	ial radio gried (M. 218)
1	1 2 3 4		à hai (f. leacht field	fleet	TERREST OF THE SE
	a (i) (ii) (iii) (iv)				en delakonbella Sellen

13. The geometrical shape of Carbocation is

a) Linear

b) Planar

c) tetrahedral

d) Pyramidal V/11/Che/1

1.4.		aldehyde (i) CH ₃ Mgl X, X is	A STATE OF THE STATE OF				
		2-Propanol (II) H ₂ O/HI b) 2-Methyl-2-Propanol					
15		1-Propanol oal gas tragedy is a case of					
			n bayant Armit				
		Nuclear Pollution b) Air pollution Air pollution d) Land pollution					
	140 11	Part - II	6x2=12				
10	Answ	ver any six questions. Q.No. 24 is compulsory.					
10.	State	Paull's exclussion principle?					
18	7. Define diagonal relationship?8. How is Plaster of paris prepared?						
19.	Define	e Third law of thermoclynamics?					
20.	State equillibrium constant (Kc)?						
21.	Define	e Isotonic solution?					
22.	Vvnat	t happen when Ethylene reagent with cold alkaline KMnO4 (Bayer's regend)? e Smog?					
24.		molarity of the solution containing 45g of glucose dissolved in 2kg of water?					
		Part - III	6x3=18				
	Answe	ver any six questins. Q.No. 33 is compulsory.	0X3-10				
25.	Explai	ain Deutrium exchange reaction?					
		Joule - Thomson effect.					
28	Define	e Hess's law of constant heat summation. Bond energy?					
29.		ain Lassaigne Sodium fusion test.					
30.	Explai	ain functional Isomerism with example.	and missing the same				
31.	Differe	rentiate between neucleopiles and electrophiles.					
32.	Explai	in Carbylamine reaction.					
33.	and re	ulate the empirical and molecular formula compound containing 76.6.%, Carbon est oxygen its vapour density is 47.	6.38% hydrogen				
	and re	Part - IV.	5x5=25				
		er all the questions.					
34,	(a) (i	(i) Calculate the oxidation number of underlined elements in the following specie	es. 2				
	(i	a) $H_2\underline{S}O_4$ b) $\underline{O}F_2$ c) $\underline{C}r_2O_7$ d) $\underline{C}O_2$					
		 (ii) Calculate the equivalent mass of Pottasium dichromate. The reduction hall medium is 	r-reaction in acid				
		$Cr_2O_7^{-2} + 14H^+ + 6e^- \rightarrow 2Cr^{3+} + 7H_2O$	3				
	(h) (
	(b) (i	(iii) Describe the Hund's rule with suitable example	3				
35).	(a) (i	 (iv) Give appropriate reason for Ionisation potential of N is greater then that of oxygen. (i) How do you convert para hydrogen into Ortho hydrogen? 					
W		(ii) Substantiate Lithium fluoride has the lowest soulubility among group one mo	etal fluorides				
2		A STATE OF THE STA	otal nacriacs.				
	(b) (i	(iii) Explain the types of hydrogen bonding with example.	3				
(36)		(iv) Distinguish between diffusion and effusion. (i) List the characteristics of Gibbs free energy.	3 2				
Qg.		(ii) Which of the following gases would you expect to deviate from ideal behaviour	3				
		of low temperature F ₂ ,Cl ₂ ,Br ₂ ? Explain.	2				
		(OR)					
67	(b) (i	(iii) Derive the relationship between Kp and Kc	5				
(31.	(a) (I	 Calculate the Van't hoff factor (i) for a dilute aqueous solution of the strong e hydroxide? (ii) Define Hybridisation. 					
		(OR)	2				
	, ,	iii) Classification of organic compounds based on structure with example	5				
38.	(a) (i	I) a) How will you convert Benzene → Cyclohexane.					
	(i	b) Give the β - elimination reaction (ii) Explain the Markownikoff's rule with suitable exmaple	3				
	(1	ii) Explain the Markownikoff's rule with suitable exmaple. (OR)	2				
	(b) (i	iii) How will you convert the following.					
		Benzene → Acetophenone Chlorobenzene → Biphenyl	3.				
12	(i	iv) Distinguish between BOD and COD.					
			V/11/Che/2				