Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu College Kolhapur

Unit test Examination 2021-22

Sub: Inorganic Chemistry

Std: BSc.III	Marks – 50				
Date:	Time – 60 Min.				
Attempt All Question Compulsary					
1) Bronsted-Lowry acid is do	onor.				
A) Electron pair B) Oxide io	on				
C) Proton D) Anion					
2)is a base according to bronsted-Lowry concept as well as lewis concept					
A) NH ₃ B) NaOH C) 3) According to pearson hard acid prefe	C ₆ H ₅ OH D) CH ₃ OH or to bind				
A) Hard base B) Hard ac	d C) Soft base D) Soft acid				
4) According to HSAB conceptis soft acid.					
A) Na ⁺ B) Ni ²⁺ C) H 5) The solvent which neither donate nor	Ig ²⁺ D) Mg ²⁺ accept proton is calledsolvant				
A) Protic B) Aprotic	C) Aqueous D) Ionising				
6) In octahedral complex,co-ordination number of central metal atom is					
A) 4 B) 6 C) 5	D) 7				
7) Square planar complexes are generally					
A) High spinC) Eiether low spin or high spin	B) Low spinD) Niether low spin nor high spin				
8) In $[Ti (H_2O)_6]^{3+}$ ion there are bond antibondingMOs.	lingNon-bonding				
A) 6,3,6 B)3, 6,3 C) 6,	6,3 D) 3,3,6				

9) According to in nature	to CFT bond	ling betwe	en metal	and ligand i	s
A) Co-ordina	A) Co-ordinate		B) Covalent C) Ion		D) Metallic
10) In high speed octahedral co		omplex , Δ_\circ isthan Pairing energy B) Intermediate			
C) More intermediate		D) Less			
11) Which of	the followin	g is ceram	ic super o	conductor?	
A) Cd	B) Hg	C) YBa ₂	C_3O_7	D) Zn	
13) Electrical of A) Decrease	rs nductors conductivity change	of Metals B) Inc D) Firs	o) Goodco	conductors onductors with decrease esthen increa	-
A) FCC	B) B	CC	C) H	СР	D) All of these
15) Super con	ductors show	WS	effe	ct	
A) Resonance	ce B) Ti	rans C)	Raman	D) M	l eissnier
16) In Organor	netallic cor	npound	is u	sed to signify	bridging groups.
Α) μ	B) K	C) η	D) η	2	
17) In dimethy bonds	yl beriylliun	n polymer	Be-C-Be	bridges are	formed by
A) (2c-2e) B) (3c-2e)	C) (1c-3e)	D) (3c-1e)

18) Fe –C equatorial	bond length in Fe(CO) ₅ molecu	ıle is	A°
A) 1.842	B) 1.792	C) 1.501	D) 2.3	15
19) Cr (CO) ₆ has	structure.			
A) Distorted octahe C) Tetrahedral	,	nedral al bipyramida	ıl	
20) The Substance w	which alter the rate of	of chemical re	eaction is	s called
A) Promoter	A) Promoter B) Inhibitor C) Car		I	O) Poison
21) Oxidation of ox catalysis	alic acid by acidifi	ed KMnO ₄ is	exampl	e of
A) Acid-base	B) Negative	C) Auto		D) Induced
22) The catalysts whi	ch accelerate the ra	ate of chemic	al reaction	ons are
A) Negative	A) Negative B) Positive		uto I	D) Induced
23) Terminal carbony	l groups linked wit	h metal throu	ıgh	bond.
A) Ionic B) Si	gma and Pia	C) Covalent	t I	D) Hydrogen
24) The compound compound	ontaining at least or	ne metal-carbo	on bond	is called
A) Co-ordinate	B) Organometallio	c C) Or	rganic	D) Inorganic
25) Ni(CO) ₄ has	structure.			
A) Octahedral	B) Tetrahedra	al		
C) Square planer	D) Trigonal bi	pyramidal		