

CLASS: XIth
DATE:
SUBJECT: CHEMISTRY
DPP No.: 4

## Topic :- THE D-AND F-BLOCK ELEMENTS

1.	its extraction. This met	al is		ty is taken advantage for		
	a) Iron	b) Nickel	c) Cobalt	d)Tungsten		
2.	Pig iron is converted in a) Blast furnace	to steel by reducing the b) Pyrite burner	amount of carbon conta	nined in it, in a: d) None of these		
			converter			
3.	Which one of the follow a) Cu <sup>+</sup>	ving <mark>form</mark> s a complex of b) Ag <sup>+</sup>	coordination number 2 c) Ni <sup>2+</sup>	with excess of CN <sup>-</sup> ions? d) Fe <sup>2+</sup>		
4.	The radius of La <sup>3+</sup> (Atovalues will be closest to (Atomic number of Lu=a) 1.60 Å	o the <mark>radiu</mark> s of Lu <sup>3+</sup> ?	) is 1.06 Å. Which one of c) 1.06 Å	the following given		
	u) 1.00 11	0) 1.10 11	c) 1.0011	u) 0.03 11		
5.	, ,		globin, Fe <sup>2+</sup> ion changes from			
	<ul><li>a) Diamagnetic to paramagnetic</li><li>c) Diamagnetic to ferromagnetic</li></ul>		b) Paramagnetic to diamagnetic d) Paramagnetic to ferromagnetic			
6.	Which statement is incorrect? a) Silver glance mainly contains silver sulphide b) Gold is found in native state c) Zinc blende mainly contains zinc chloride d) Copper pyrites also contain $Fe_2S_3$					
7.		27, Cu=29,Ni=28) the o	colourless species are c) $Cu_2Cl_2$ and $NiCl_4^{2-}$	d) $TiF_6^{2-}$ and $Cu_2Cl_2$		

8.	Among the following series of transition metal ions, the one where all metal ions have $3d^2$ electronic configuration is: a) $Ti^{3+}$ , $V^{2+}$ , $Cr^{3+}$ , $Mn^{4+}$ b) $Ti^{+}$ , $V^{4+}$ , $Cr^{6+}$ , $Mn^{7+}$ c) $Ti^{4+}$ , $V^{3+}$ , $Cr^{2+}$ , $Mn^{3+}$ d) $Ti^{2+}$ , $V^{3+}$ , $Cr^{4+}$ , $Mn^{5+}$					
9.	Calomel (Hg <sub>2</sub> Cl <sub>2</sub> ) on rea a) HgO c) NH <sub>2</sub> —Hg—Hg—Cl	action with ammonium	hydroxide gives b) Hg <sub>2</sub> O d) HgNH <sub>2</sub> Cl			
10.	Steel resistant to acid is a) Carbon steel	s: b) Molybdenum steel	c) Stainless steel	d) Nickel steel		
11.	Non-stoichiometric con a) Alkali metals b) Transition elements c) Noble gases d) More than one of the					
12.	<ul><li>d-block elements gener</li><li>a) Covalent hydrides</li></ul>	-	c) Interstitial hydrides	d) Salt-like hydrides		
13.	The element present in a) Fe	red <mark>bloo</mark> d cells of huma b) Ra	n blood is: c) Co	d) All of these		
14.	The element which exhibit both vertical and horizontal similarities are: a) Inert gas elements b) Representative elements c) Rare elements d) Transition elements					
15.	Which occurs in nature a) Fe	in free state? b) Co	c) Ni	d) Pt		
16.	$H_2S$ is passed in aqueoua) $ZnCl_2$	as solution of to give b) $Zn(NO_3)_2$	a white precipitate of Zr <sub>C)</sub> (CH <sub>3</sub> COO) <sub>2</sub> Zn	nS. d) None of these		
17.	Which of the following are <i>d</i> -block elements but not regarded as transition elements? a) Cu, Ag, Au b) Zn, Cd, Hg c) Fe, Co, Ni d) Ru, Rh, Pd					
18.	Which is the least soluble in water?					

- a) AgCl b) Ag<sub>2</sub>S c) AgI d) AgBr
- 19. Which of the following elements is alloyed with copper to form brass?
  - a) Bismuth b) Zinc c) Lead d) Antimony
- 20. When  $KMnO_4$  reacts with acidified  $FeSO_4$ :
  - a) Only FeSO<sub>4</sub> is oxidized
  - b) Only KMnO<sub>4</sub> is oxidized
  - c) FeSO<sub>4</sub> is oxidized and KMnO<sub>4</sub> is reduced
  - d) None of the above

