

CLASS : XIth DATE : SUBJECT : CHEMISTRY DPP No. : 8

Topic :- THE D-AND F-BLOCK ELEMENTS

- 1. The matte obtained in the extraction of copper contains:a) $FeSiO_2$ b) $SiO_2 + FeS$ c) $FeS + Cu_2S$ d) $CuS + SiO_2 + FeO$
- 2. The electronic configuration of actinoids can to be assigned with degree of certainty because of a) Overlapping of inner orbitals
 - b) Free movement of electrons over all the orbitals
 - c) Small energy difference between 5*f* and 6*d* levels
 - d) None of the above
- 3. In Mac Arthur forrest method, silver is extracted from the solution of Na[Ag(CN)2] by the use of
a) Feb) Mgc) Cud) Zn
- 4. Transition elements are coloured
 a) Due to unpaired *d*-ellectrons
 b) Due to small size
 c) Due to metallic nature
 d) All of the above
- 5. Which one of the elements with the following outer orbital configurations may exhibit the largest number of oxidation states? a) $3d^24s^2$ b) $3d^34s^2$ c) $3d^54s^1$ d) $3d^54s^2$
- 6. Lanthanide contraction occurs because
 - a) *f*-orbitals are incompletely filled
 - b) *f*-orbital electrons are easily lost
 - c) *f*-orbital do not come out on the surface of atom and are buried inside
 - d) *f*-orbital electron are poor shielders of nuclear charge
- 7. Silver nitrate produces a black stain on skin due to:
 - a) Its corrosive action
 - b) Its reduction to metallic silver
 - c) Its strong reducing action
 - d) The formation of a complex compound

8.	The most stable ion is: a) Mn ²⁺	b) Sc ⁴⁺	c) Fe ²⁺	d) Mn ³⁺
9.	The +3 ion of which on a) La	ne of the following has h b) Lu	alf-filled 4 <i>f</i> sunshell? c) Gd	d)Ce
10.	Calomel may be freed a) dil. HNO ₃	from traces of metallic r b) dil. H ₂ SO ₄	nercury by washing with c) Water	h: d)Aqua regia
11.	 One of the following is false for Hg: a) It can evolve hydrogen from H₂S b) It is metal c) It has high specific heat d) It is less reactive than H₂ 			
12.	Brass is an alloy of: a) Zn and Cu	b)Cu and Sn	c) Zn and Sn	d) Cu, Zn and sn
13.	Maximum paramagnet a) Mn	tism in 3 <i>d</i> -series is show b) Co	vn by: c) Ni	d)Fe
14.	The metal used for ma a) Manganese	king <mark>armo</mark> ured steel for b) Aluminium	tanks and domestic safe c) Lead	es is: d)Chromium
15.	Which of the following corrosion by seawater a) W		n making boats because c) Ni	it has resistance to d)Ti
16.	Which ore contains bo a) Cuprite	th iron and copper? b) Chalcocite	c) Chalcopyrite	d) Malachite
17.	$K_2 Cr_2 O_7 \xrightarrow{\Delta} K_2 Cr O_4 + O_2$ a) $Cr O_3$	+ <i>X</i> . In the above reaction b) Cr ₂ O ₇	on X is c) Cr_2O_3	d) CrO ₅
18.	Blood red colour solution is produced when ferric chloride solution is treated with:a) KCNb) KSCNc) KCNOd) K ₃ [Fe(CN) ₆]			
19.	The group of metals w a) Fe, Co, Ni	hich is known as ferrou: b) Ru, Rh, Pd	s metals is: c) Os, Ir, Pt	d) Cr, Mn, Cu
20.	In the chemical reaction; Ag ₂ O + H ₂ O + 2 $e^ \rightarrow$ 2Ag + 2OH ⁻			

a) Water is oxidised b) Electrons are reduce c) Silver is oxidised d) Silver is reduced

