

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<br/>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 <sup>2+</sup>	b) Sc <sup>4+</sup>	c) Fe <sup>2+</sup>	d) Mn <sup>3+</sup>
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 <sub>3</sub>	from traces of metallic r b) dil. H <sub>2</sub> SO <sub>4</sub>	nercury by washing with c) Water	h: d)Aqua regia
11.	<ul> <li>One of the following is false for Hg:</li> <li>a) It can evolve hydrogen from H<sub>2</sub>S</li> <li>b) It is metal</li> <li>c) It has high specific heat</li> <li>d) It is less reactive than H<sub>2</sub></li> </ul>			
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 <sub>2</sub> O <sub>7</sub>	on X is c) $Cr_2O_3$	d) CrO <sub>5</sub>
18.	Blood red colour solution is produced when ferric chloride solution is treated with:a) KCNb) KSCNc) KCNOd) K <sub>3</sub> [Fe(CN) <sub>6</sub> ]			
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 <sub>2</sub> O + H <sub>2</sub> O + 2 $e^ \rightarrow$ 2Ag + 2OH <sup>-</sup>			

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

