

DPP

DAILY PRACTICE PROBLEMS

CLASS : XIth
DATE :

SUBJECT : CHEMISTRY
DPP No. :1

Topic :- THE D-AND F-BLOCK ELEMENTS

- Which of the following types of metals form the most efficient catalysts?
a) Alkali metals
b) Alkaline earth metals
c) Transition metals
d) All of these
- In the reaction $\text{SnCl}_2 + 2\text{HgCl}_2 \rightarrow \text{A} + \text{SnCl}_4$, A is:
a) Hg_2Cl_2
b) Hg
c) HgCl
d) HgCl_3
- Mohr salt is made up of which combination of salt?
a) Ammonium sulphate and potash.
b) Ammonium sulphate and ferrous sulphate.
c) Ammonium sulphate and copper sulphate.
d) Ammonium sulphate and magnesium sulphate.
- Maximum oxidation state is presented by:
a) CrO_2Cl_2 and MnO_4^-
b) MnO_2
c) $[\text{Fe}(\text{CN})_6]^{3-}$ and $[\text{Co}]$
d) MnO
- Lanthanides are
a) 14 elements in the sixth period (atomic no. = 90 to 103) that are filling 4f sub level.
b) 14 elements in the seventh period (atomic no. = 90 to 103) that are filling 5f sub level.
c) 14 elements in the sixth period (atomic no. = 58 to 71) that are filling 4f sub-level.
d) 14 elements in the seventh period (atomic no. = 58 to 71) that are filling 4f sub-level.
- By annealing, steel
a) Becomes soft
b) Becomes liquid
c) Becomes hard and brittle
d) Is covered with a thin film of Fe_3O_4
- Which chromium compound is widely used in tanning of leather?
a) Cr_2O_3
b) CrO_2Cl_2
c) CrCl_3
d) $\text{K}_2\text{SO}_4 \cdot \text{Cr}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$
- Purple of cassius is
a) Copper solution
b) Platinum solution
c) Gold solution
d) Copper solution

9. Which is obtained when SO_2 is bubbled through a solution of CuCl_2 ?
 a) Cu b) Cu_2Cl_2 c) CuSO_4 d) CuS
10. Substance which do not react with cold water but react with steam are:
 a) C, Ca, SO_2 b) Fe, Al, Cl_2 c) CO_2 , Na, Mg d) C, Fe, Mg
11. Which metal has the highest melting point?
 a) Pt b) W c) Pd d) Au
12. Choose the correct reaction to prepare mercurous chloride (calomel)
 a) $\text{HgCl}_2 + \text{Hg} \xrightarrow{\Delta}$ b) $\text{Hg} + \text{Cl}_2 \rightarrow$ c) $\text{HgCl}_2 + \text{SnCl}_2 \rightarrow$ d) Both (a) and (c)
13. Density, malleability and ductility in coinage metals increase in the order:
 a) Cu, Ag, Au b) Au, Ag, Cu c) Ag, Au, Cu d) Ag, Cu, Au
14. An acidified solution of KMnO_4 oxidizes:
 a) Sulphates b) Sulphites c) Nitrates d) Ferric salts
15. Magnetite is:
 a) $2\text{Fe}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$ b) FeS_2 c) Fe_3O_4 d) Fe_2O_3
16. Least paramagnetic property is shown by
 a) Fe b) Mn c) Ni d) Cu
17. Platinum, Palladium, irridium, etc., are called noble metals because:
 a) Alfred Nobel discovered them
 b) They are inert towards many common reagents
 c) They are shining, lustrous and pleasing to look
 d) They are found in native state
18. Silver obtained from argentiferous lead is purified by:
 a) Distillation b) Froth floatation c) Cupellation d) Reaction with KCN
19. Paris green is:
 a) $\text{Cu}(\text{CH}_3\text{COO})_2$ b) $\text{Cu}_3(\text{AsO}_3)_2 \cdot 2\text{H}_2\text{O}$ c) $\text{Cu}(\text{CH}_3\text{COO})_2 \cdot 3\text{Cu}(\text{Asd}) \text{Co}(\text{AlO}_2)_2$
20. Variable valency is shown by
 a) Normal elements b) Transition elements c) Typical elements d) None of these