

CLASS : XI<sup>th</sup>  
DATE :

SUBJECT : CHEMISTRY  
DPP No. : 7

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

- Which of the following is known as lunar caustic when in the fused state?  
a) Silver nitrate      b) Silver sulphate      c) Silver chloride      d) Sodium sulphate
- Silver chloride dissolves in a solution of ammonia but not in water because:  
a) Ammonia is a better solvent than water  
b) Silver ion forms a complex ion with ammonia  
c) Ammonia is a stronger base than water  
d) The dipole moment of water molecule is higher than that of ammonia molecule
- Which metal is ferromagnetic?  
a) Cr      b) Fe      c) Zn      d) Al
- Which of the following is called white vitriol?  
a)  $ZnCl_2$       b)  $MgSO_4 \cdot 7H_2O$       c)  $Al_2(SO_4)_3$       d)  $ZnSO_4 \cdot 7H_2O$
- The process of heating of steel to temperature much below redness and then slowly cooling is called:  
a) Annealing      b) Hardening      c) Tempering      d) Case hardening
- "925 fine silver" means an alloy of  
a) 7.5 % of Ag and 92.5 % Cu      b) 92.5 % Ag and 7.5% Cu  
c) 80% Ag and 20% Cu      d) 90% Ag and 10% Cu
- The compound used in preservation of wood is:  
a) NaCl      b)  $HgCl_2$       c)  $ZnCl_2$       d)  $CaCl_2$
- In photography we use  
a) AgI      b)  $NH_3$       c) AgCl      d) AgBr
- Brass, bronze and German silver have one common metal. This is  
a) Zn      b) Fe      c) Al      d) Cu

10. Transition metal used for making joins in jewellery is  
a) Zn                      b) Cu                      c) Ag                      d) Cd
11. Which of the following elements has the maximum first ionization potential?  
a) V                      b) Ti                      c) Mn                      d) Cr
12. Fulminating gold is:  
a)  $\text{CuFeS}_2$   
b)  $\text{FeS}_2$   
c)  $\text{Au}(\text{NH}_2) = \text{NH}$  or  $\text{AuN}_2\text{H}_3$   
d)  $\text{AuCl}_3$
13. The transition metal present in vitamin  $\text{B}_{12}$  is:  
a) Fe                      b) Co                      c) Ni                      d) Na
14. The most convenient method to protect bottom of ship made of iron is  
a) Coating with red lead oxide                      b) Connecting with 'Pb' block  
c) Connecting with 'Mg' block                      d) White tin plating
15. The reaction  $\text{MnO}_4^- + e^- \rightarrow \text{MnO}_4^{2-}$  takes place in:  
a) Basic medium  
b) Acidic medium  
c) Neutral medium  
d) Both acidic and basic medium
16. Which metal is used in making cathode containers of dry cell?  
a) Zn                      b) Bi                      c) Cr                      d) Fe
17. Railway wagon axles are made by heating iron rods embedded in charcoal powder. This process is known as  
a) Tempering                      b) Case hardening                      c) Sherardising                      d) Annealing
18. The methods chiefly used for the extraction of lead and tin from their ores are respectively  
a) Self reduction and carbon reduction                      b) Self reduction and electrolytic reduction  
c) carbon reduction and self reduction                      d) Cyanide process and carbon reduction
19. The most stable oxidation state of lanthanides is  
a) +2                      b) +4                      c) 0                      d) +3

20. In context of the lanthanoids, which of the following statements is not correct?
- a) There is a gradual decrease in the radii of the members with increasing atomic number in the series.
  - b) All the members exhibit +3 oxidation state.
  - c) Because of similar properties the separation of lanthanoids is not easy.
  - d) A availability of 4*f*-electrons results in the formation of compounds in +4 state for all members of the series.

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