

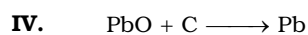
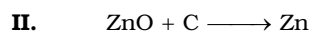
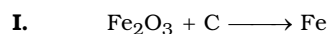


Date Planned : __ / __ / __	Daily Tutorial Sheet-2	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

16. Which one of the following is not a method of concentration of metals ?
 (A) Gravity separation (B) Froth floatation process
 (C) Electromagnetic separation (D) Smelting
17. Froth floatation process used for the concentration of sulphide ore : 
 (A) is based on the difference in wettability of different minerals
 (B) uses sodium ethyl xanthate, $C_2H_5OCS_2Na$ as collector
 (C) uses NaCN as depressant in the mixture of ZnS and PbS when ZnS forms soluble complex and PbS forms froth
 (D) all of the above are correct
18. Gravity separation process is used for the concentration of :
 (A) calamine (B) haematite (C) chalcopyrites (D) bauxite
19. Froth floatation process for the concentration of sulphide ores is an illustration of the practical application of
 (A) Adsorption (B) Absorption (C) Sedimentation (D) Coagulation
20. Froth floatation process is used for the concentration of the ore of :
 (A) Fe (B) Al (C) Cr (D) Cu
21. Haematite ore is concentrated by :
 (A) Gravity separation method (B) Froth floatation process
 (C) Amalgamation (D) Hand picking
22. Electromagnetic separation is used in the concentration of :
 (A) Copper pyrite (B) Bauxite (C) Cassiterite (D) Cinnabar
23. Which one of the following is not a method of concentration of ore ?
 (A) Electromagnetic separation (B) Smelting
 (C) Gravity separation (D) Froth floatation process
24. Chemical leaching is useful in the concentration of :
 (A) Copper pyrite (B) Bauxite (C) Cassiterite (D) Galena
25. The ore which is concentrated wetting by oil is :
 (A) oxide ore (B) sulphate ore (C) carbonate ore (D) sulphide ore
26. Magnetite is separated from chlorapatite by :
 (A) Froth floatation method (B) Levigation
 (C) Magnetic separation method (D) Electrostatic separation method
27. Which of the following pair is incorrectly matched ? 
 (A) Van Arkel method – Zirconium (B) Kroll's process – Titanium
 (C) Froth Floatation – Cerussite (D) Distillation – Zinc

28. In the extraction of copper from its sulphide ore, the metal is formed by reduction of Cu_2O with :
(A) FeS **(B)** CO **(C)** Cu_2S **(D)** SO_2

29. Out of the following reduction processes



Correct processes are :

- (A)** All of these **(B)** all but III **(C)** all but IV **(D)** II and IV

30. Consider the following steps $\text{CuS} \xrightarrow{\text{roast in air}} (\text{A}) \xrightarrow{\text{roast without air}} (\text{B})$



Which is not the correct statement ?

- (A)** It is self-reduction
(B) It involves disproportionation $\text{Cu}_2\text{S} \longrightarrow \text{Cu} + \text{CuS}$
(C) (A) is a mixture of CuO and CuS and (B) is a mixture of Cu and SO_2
(D) All are incorrect statements