

METALLURGY

2 Marks:

1. Write about gravity and separation.
2. What is cementation?
3. What is calcination?
4. What is leaching?
5. What is ammonia leaching?
6. What is acid leaching?
7. Write about extraction of metal by the process of reduction by hydrogen.
8. What is auto reduction?
9. Write about distillation process of refining a metal.
10. Write about liquation process of refining a metal.

3 Marks:

1. Write about Van-Arkel method of refining [Zr /Ti].
2. Write about aluminothermic process.
3. Write about Electromagnetic separation.
4. Explain Froth Flotation.
5. How copper is extracted from copper pyrites?
6. Mention the applications of **Cu** (3 points), **Au** (3 points), **Fe** (4 points) and **Al** (5 points).

Note:

- Present the answers in points
- For 2 marks (answer in 3 to 4 points)
- For 3 marks (answer in 6 to 9 points)
- Draw diagram if necessary at right side corner