

ICSE Living Science CHEMISTRY

Class 10



Multiple-Choice Questions

CHAPTER 7: METALLURGY

- Which of the following metals is not found in free state?
(a) Gold (b) Copper
(c) Silver (d) Platinum
Ans: b
- Which of the following is not a step under the process of metallurgy?
(a) Concentration of ore (b) Conversion of concentrated ore into metal oxide
(c) Refining of impure metals (d) Oxidizing the ore
Ans: d
- Which of the following methods is based on the difference in the chemical reactivity of the ore and the gangue towards a particular reagent?
(a) Chemical separation
(b) Physical separation
(c) Magnetic separation
(d) Filtration
Ans: a
- Calcination is the process of heating the concentrated ore below its in the absence of, or limited supply of, air.
(a) boiling point (b) freezing point
(c) melting point (d) dehydrating point
Ans: c
- Roasting is generally used for ores.
(a) carbonate (b) sulphide
(c) sulphite (d) nitrate
Ans: b
- Aluminium belongs to Group of the periodic table.
(a) 10 (b) 11
(c) 12 (d) 13
Ans: d
- The most common ore of aluminium is
(a) cryolite. (b) bauxite.
(c) corundum. (d) galena.
Ans: b

8. The process of adding crystals of $\text{Al}(\text{OH})_3$ to the precipitation process in Baeyer's process is called
- (a) seeding. (b) precipitation.
(c) crystallization. (d) addition.
Ans: a
9. Aluminium is usually extracted by the process.
- (a) Baeyer's (b) Haber-Bosch
(c) Hoopé's (d) Hall-Heroult's
Ans: a
10. Cryolite and fluorspar mixture acts as a solvent for alumina and also the fusion temperature.
- (a) increases (b) lowers
(c) stabilizes (d) initiates
Ans: b
11. A layer of powdered coke is sprinkled over the electrolytic mixture to reduce heat loss due to
- (a) conduction. (b) radiation.
(c) convection. (d) assimilation.
Ans: b
12. The carbon anode has to be replaced periodically as the oxygen released it.
- (a) oxidizes (b) reduces
(c) neutralizes (d) corrodes
Ans: a
13. In the electrolytic reduction of fused alumina, is discharged at the anode.
- (a) carbon dioxide (b) nitrogen
(c) oxygen (d) hydrogen
Ans: a
14. Stainless steel is an alloy of, nickel, chromium and carbon.
- (a) iron (b) aluminium
(c) zinc (d) copper
Ans: a
15. is used in making aircraft and its parts.
- (a) Stainless steel (b) Solder
(c) Magnalium (d) Duralumin
Ans: d
16. Brass is an alloy of
- (a) copper and zinc. (b) iron and copper.
(c) iron and zinc. (d) aluminium and copper.
Ans: a
17. is used in electrical fitting.
- (a) Solder (b) Duralumin
(c) Alinco (d) Nichrome
Ans: d

18. of metals lowers their melting points.

(a) Oxidation

(b) Reduction

(c) Polishing

(d) Alloying

Ans: d

19. The properties of alloys are the constituent metals.

(a) similar to

(b) different from

(c) superior to

(d) extension of

Ans: b

20. Alnico is used for making electromagnets, as it is

(a) light.

(b) shiney.

(c) resistant to corrosion.

(d) all of these.

Ans: d