General Principles of Extraction of Metals

T Self Evaluation Test -16

- 1. The region in which main metals are found in earth is called
 - (a) Atomophil
- (b) Lithophil
- (c) Calcophil
- (d) Siderophil
- 2. Which metal is found in free state
 - (a) Iron
- (b) Gold
- (c) Aluminium
- (d) Sodium
- **3.** Which metal is found in Khetri region of Rajasthan
 - (a) Iron
- (b) Copper
- (c) Gold
- (d) Lead
- **4. Sapphire** is mineral of

[BHU 1977]

- (a) *Cu*
- (b) Zn

(c) Al

- (d) Mg
- 5. Of the following substances the one which does not contain oxygen is [JIPMER 1997]
 - (a) Bauxite
- (b) Epsom salt
- (c) Cryolite
- (d) Dolomite
- **6.** The chief impurity present in red bauxite is :

[DCE 2004]

- (a) SiO_2
- (b) Fe_2O_3
- (c) K_2SO_4
- (d) NaF
- **7.** In the froth floatation process for the purification of ores, the ore particles float because

[MP PMT 1984; NCERT 1981; CPMT 1987;

MNR 1992; UPSEAT 2002]

- (a) They are light
- (b) Their surface is not easily wetted by water
- (c) They bear electrostatic charge
- (d) They are insoluble

8. Difference in density is the basis of

[Kerala (Med.) 2002]

- (a) Ultrafiltration
- (b) Molecular sieving
- (c) Gravity separation
- (d) Molecular attraction
- 9. Mark the wrong statement
 - (a) Wrought iron is prepared by heating cast iron in a reverberatory furnace
- (b) The impurities present in cast iron are oxidised by air
 - (c) The impurities are oxidised by Fe_2O_3
 - (d) *CO* burns with blue flame and the *Si*, *Mn* and other impurities form slag with silica
- 10. Thomas slag is

[RPET 2003]

- (a) CaSiO 3
- (b) $Ca_3(PO_4)_2$
- (c) $MnSiO_3$
- (d) CaCO₃
- **11.** Which is correct

[MADT Bihar 1995]

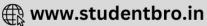
(a) Aluminium: Calamine

(b) Copper: Malachite

(c) Magnesium: Calamine

(d) Zinc: Carnellite

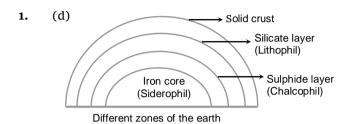




As

Answers and Solutions

(SET -16)



- **2.** (b) Gold, *Ag* and *Pt* are called noble metals. They are unreactive and found in free state.
- 3. (b) Copper metal is found in khetri region of Rajasthan with that it is also found in singhbhum and Hazaribagh district in Bihar, Agnigundala in Andhra pradesh, Malanjkh in M.P.
- **4.** (c) Saphire (Blue colour) is mineral of *Al*.
- 5. (c) Cryolite (Na_3AlF_6)
- **6.** (b) Red bauxite has chief impurity of Fe_2O_3 .
- **7.** (b) Ore particles are wetted by oil. Hence, float on the surface.
- **8.** (c) Levigation or gravity separation is used when the ore particles are heavier than the earthy or rocky gangue particles.
- **9.** (b) The wrong statement is that the impurities present in cast iron are oxidised by air.
- **10.** (b) Thomas slag $Ca_3(PO_4)_2$ is used as a valuable fertilizer.

***_{11.}

(b) Malachite is an ore of copper.





