

**Only One Correct Answer :**

1. Which of the following is not the ore of zinc.
(A) Zincite (B) Colemanite (C) Sphalerite (D) Calamine

2. Which of the following ore is not the ore of Fe
(A) Magnetite (B) Magnesite
(C) Limonite (D) Siderite

3. The most common elements present in the crust of the Earth are:
(A) oxygen, silicon, aluminium (B) oxygen, iron, magnesium
(C) silicon, iron, potassium (D) oxygen, iron, silicon

4. 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

5. When ZnS and PbS minerals are present together, then NaCN is added to separate them in the froth floatation process as a depressant, because
(A) $\text{Pb}(\text{CN})_2$ is precipitated while no effect on ZnS
(B) ZnS forms soluble complex $\text{Na}_2[\text{Zn}(\text{CN})_4]$
(C) PbS forms soluble complex $\text{Na}_2[\text{Pb}(\text{CN})_4]$
(D) They cannot be separated by adding NaCN.

6. Which of the following process is not a physical process of separation
(A) Levigation (B) Magnetic separation
(C) Leaching (D) Froth floatation

More than one correct :

7. $\text{A}_{(\text{sulphide ore})} + \text{NaCN} \xrightleftharpoons[\text{Complex}]{\text{(leaching), air}} \text{B} + \text{Na}_2\text{S} \xrightarrow{\text{O}_2} \text{Na}_2\text{SO}_4$, then B is -
(A) Paramagnetic (B) Diamagnetic
(C) Linear complex (D) Co-ordination number of central atom is 4

**Matrix Match Type :**

8. Match **List-I** with **List-II** and select the correct answer using the codes given below the lists.

List-I (Metals)				List-II (Ores)					
(P)	Tin	(1)	Calamine						
(Q)	Zinc	(2)	Cassiterite						
(R)	Titanium	(3)	Cerrusite						
(S)	Lead	(4)	Rutile						
(P)	(Q)	(R)	(S)	(P)	(Q)	(R)	(S)		
(A)	1	2	3	4	(B)	2	1	4	3
(C)	4	3	2	1	(D)	2	1	3	4

9. Match List-I with List-II and select the correct answer using the codes given below the lists:

List-I (Ore)				List-II (Metal)					
(P)	Carnallite	(1)	Zinc						
(Q)	Calamine	(2)	Titanium						
(R)	Ilmenite	(3)	Magnesium						
(S)	Chalcopyrite	(4)	Copper						
(P)	(Q)	(R)	(S)	(P)	(Q)	(R)	(S)		
(A)	1	3	2	4	(B)	1	3	4	2
(C)	3	1	4	2	(D)	3	1	2	4

Integer value type :

10. How many of the following are the containing Pb, Hornsilver, Cerrusite, Chalcopyrite, Galena, Anglesite



ANSWER KEY

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|--------|--------|---------|--------|--------|--------|---------|
| 1. (B) | 2. (B) | 3. (A) | 4. (A) | 5. (B) | 6. (C) | 7. (BC) |
| 8. (B) | 9. (D) | 10. (3) | | | | |