## **DPP NO. 09**

TOPIC : METALLURGY							
1.	Froth floatation process (A) Oxide ores	s is used for the concent (B) Sulphide ores	ration of (C) Chloride Ores	(D) Amalgam			
2.	The substance added in (A) Olive oil	n water in the froth floata (B) Pine oil	tion process is (C) Coconut oil	(D) None of the above			
3.	Iron ore is concentrated (A) Froth floatation	l by (B) Electrolysis	(C) Roasting	(D) Magnetic separation			
4.	Bauxite ore is concentra (A) Froth floatation (C) Chemical treatment	•	(B) Electromagnetic separation (D) Hydraulic separation				
5.	Froth-floatation method is successful in separating impurities from ores because  (A) The pure ore is denser than water containing additives like pine oil, cresylic acid etc.  (B) The pure ore is soluble in water containing additives like pine oil, cresylic acid etc.  (C) The impurities are soluble in water containing additives like pine oil, cresylic acid etc.  (D) The pure ore is not as easily wetted by water as by pine oil, cresylic acid etc.						
6.	Extraction of zinc from zinc blende is achieved by  (A) Electrolytic reduction  (B) Roasting followed by reduction with carbon  (C) Roasting followed by reduction with another metal  (D) Roasting followed by self-reduction						
7.	Heating of pyrites in air (A) Roasting	for oxidation of sulphur (B) Calcination	is called (C) Smelting	(D) Slagging			
8.	A substance which read (A) Flux	cts with gangue to form f (B) Catalyst	usible material is called (C) Ore	(D) Slag			
9.	When lime stone is hea (A) Calcination	ted strongly, it gives off (B) Roasting	CO <sub>2</sub> . In metallurgy this particle (C) Smelting	rocess is known as (D) Ore dressing			
10.	The substance which is (A) Slag	mixed with the ore for re (B) Gangue	emoval of impurities is te (C) Flux	rmed as - (D) Catalyst			
11.	What are the three steps in extraction of a metal after its ore is mined?						
12.	Write the chemical equations showing roasting and calcination of zinc ores?						
13.	Mention the principles of concentration of ore for various methods?						
14.	Four metals A, B, C &	D are, in turn, added t	o the following solutions	one by one. The observation			

ns made are tabulated below:

Metal	Iron (II) sulphate	Copper (II) sulphate	Zinc sulphate	Silver nitrate
Α	No reaction	Displacement	_	_
В	Displacement	_	No reaction	_
С	No reaction	No reaction	No reaction	Displacement
D	No reaction	No reaction	No reaction	No reaction

Answer the following questions based on above information :

- (i) Which is the most active metal and why?
- (ii) What would be observed if B is added to a solution of copper (II) sulphate and why?
- (iii) Arrange the metals A, B, C and D in order of increasing reactivity.
- (iv) Container of which metal can be used to store both zinc sulphate solution and silver nitrate solution?
- (v) Which of the above solutions can be easily stored in a container made up of any of these metals?
- 15. Explain the methods used to extract the following
  - (i) Active metals (ii) Metals of medium reactivity
  - (iii) Metals of low reactivity
- (iv) Non-metals

## **Answers Key**

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1. B 2. B 3. D 4. C 5. D 6. B 7. A

8. D 9. C 10. A