Austenite phase in Iron-Carbon equilibrium diagram				
a. is face centered cubic structure b. has magnetic phase c. exists below 727 °C d. all of the above				
What is the crystal structure of δ-ferrite?				
 a. Body centered cubic structure b. Face centered cubic structure c. Orthorhomic crystal structure d. None of the above 				
Flash smelting is used for the production of				
^C Copper ^C Lead				
C Tungsten				
The process of reducing the ore with carbon in the presence of flux is known as				
Sintering Smelting Calcination Roasting				
 Aluminium 				
Main function of roasting is				
To remove volatile substances				
Oxidation				
Reduction				
Slag formation				

•	0	Roasting			
•	0	Calcination			
•	0	Smelting			
•		Slagging			
• \//bio	h io	net besis flux?			
WIC	n is	not basic flux?			
•	0	CaCO₃			
•	0	Lime			
•	0	SiO ₂			
•	C	CaO			
Whor	ı lim	a stane is heated strangly it gives off CO. In metallurgy this process is			
When lime stone is heated strongly, it gives off CO ₂ . In metallurgy this process is known as					
•	0	Calcination			
•		Roasting			
•		Smelting			
•		Ore dressing			
Purpose of smelting of an ore is					
•	С	To oxidise it			
	0	To reduce it			
•	0				
•	-	To remove vaporisable impurities			
•	0	To obtain an alloy			

Heating of pyrites in air for oxidation of sulphur is called

Smelting is done in

	_	
•	0	Blast furnace
•	0	Muffle furnace
•	0	Open-hearth furnace
•	0	Electric furnace
Zone	refir	ning is based on the principle that
	(i)im	purities of low boiling metals can be separated by distillation.
(ii)	imp	urities are more soluble in molten metal than in solid metal.
(absor	•	different components of a mixture are differently adsorbed on an t.
(iv) v	apours of the volatile compound can be decomposed in pure metal.
Elect	rolyt	tic refining is used to purify which of the following metals?
(i) (ii) (iii) (iv)	(ii) (iii	and Zn Ge and Si) Zr and Ti) Zn and Hg
Whic	h o	f the following options are correct?
		ron is obtained by remelting pig iron with scrap iron and coke t air blast.
(ii) Ir	n th	e extraction of silver, silver is extracted as cationic complex.

(iii) Nickel is purified by zone refining.

(iv)Zr and Ti are purified by van Arkel method

The important processes involved in the smelting in the extraction of iron from haematite ore are

iron from haematite ore are
a.Reduction
b.Slag Formation
c.Combustion
d.Fusion
The process of Reducing the ore with carbon in the presence of flux is known as
a.Sintering
b.Smelting
c.Calcination
d.Roasting
Dow process is used in the extraction of
a.Zinc
b.Aluminium
c.Magnesium

d.Lead

Which of the following process has the objective of precipitation of metal in aqueous solution?

- a.Leaching
- b.Cementation
- c.Converting
- d.Roasting
 - What is the role of flux in metallurgical processes?
 - Mention about the Function of Predominance Area Diagram?
 - Define Matte & Speiss?
 - Differentiate between a Metal & an Alloy?
 - Classify various processes and their stages involved in Pyrometallurgy and Hydrometallurgy?
 - How is Bacterial Leaching different from Pressure Leaching?
 - Discuss about the use of Ellingham Diagram?
 - What is Agglomeration? Discuss about various agglomeration process?
 - Differentiate between free energy and Internal energy of a chemical Reaction?
 - How is Electowinning different from Electrorefining?