

2038372(038)

**Diploma in Engg. (Third Semester) Examination,
Nov.-Dec. 2020**

EXTRACTIVE METALLURGY

Time Allowed : Three hours

Maximum Marks : 70

Minimum Pass Marks : 25

Note : Attempt all questions.

1. Write ores of various important metals their properties & applications. 20
2. Define Pyrometallurgy. What are the steps involved in pyrometallurgy? 20

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3. (a) Explain Ellingham diagram in details. 10

Or

- (b) What do you mean by Hydrometallurgy? Explain various steps involved in hydrometallurgy in details. 10

4. (a) Define Electrometallurgy. Explain law of electrolysis in detail. 10

Or

- (b) Write short notes on following : (any two) 10
 - (i) Metallorthermic reduction & carbothermic reduction
 - (ii) Electrowinning & Electrorefining
 - (iii) Halide metallurgy

5. Explain refining of crude metals by various method in details. 10

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