



M.Tech. III Semester Degree Examination, April/May - 2024

MINERAL PROCESSING

Basic Techniques in Mineral Dressing

(NEP)

Time : 1 Hour

Maximum Marks : 30

Instruction : Answer **all** of the following.

- I.** Answer **all** the following. **5x1=5**
- (a) Differentiate between Rock and Ore.
 - (b) Define a Mineral.
 - (c) What is Gape ?
 - (d) Define Reduction Ratio.
 - (e) What do you mean by the term Liberation ?
 - (f) Expand MOG.
- II.** Answer **any five** of the following. **5x2=10**
- (a) What is comminution ?
 - (b) Give examples of primary, secondary and tertiary crushers.
 - (c) List out any four advantages of mineralogy in mineral processing.
 - (d) What are the media used in grinding of a mineral ?
 - (e) Write any two advantages of sieve analysis.
 - (f) Define Feed, Middling's and Concentrate.
- III.** Answer **any three** of the following. **5x3=15**
- (a) Describe working of a roll crusher.
 - (b) Give examples of heavy liquids used in amenability studies.
 - (c) Explain the term concentration criteria.
 - (d) Write the laws of comminution.
 - (e) What is jigging ?

