

PE-524-CV-19
M.Sc. GEOLOGY (4th Semester)
Examination, June 2022
MINING & ENGINEERING GEOLOGY

Time : Three Hours]

[Maximum Marks : 80
[Minimum Pass Marks : 29

Note : Answer all questions. All questions carry equal marks.

UNIT-I

- 1. Define Mining. Describe briefly different mining methods. How will you choose the appropriate mining method for various geological structure of ore deposits?**

OR

Write note on any two of following:

- (a) Mine support (b) Edit Tunnel and sbayt (c) Mine subsidence**

UNIT-II

- 2. Describe open pit mining method. Discuss different methods of open cast mining along with their merits and demerits.**

OR

Write note on any two of the following:

- (a) Stopping Method (b) Limitations of open cast mining**
(c) Engineering proportion of soil

UNIT-III

- 3. Describe various methods of tunneling with neat sketches and suitable examples.**

OR

Write a note on geological considerations for "Dams".

UNIT-IV

- 4. What is screening? Describe the different methods of screening and their utility in the process of ore dressing.**

OR

Write notes on:

- (a) Crushing and Grinding (b) Lineation by sizes**

UNIT-V

- 5. Define 'concentration'. Describe the different methods of concentration along with suitable examples.**

OR

Write notes on:-

- i). Process of hand sorting**
ii). Concentration method for Iron