

M.Sc.(Geology) Sem-IV (Old Course)
MSC2483 - Paper-III : Mining Geology & Mineral Exploration

P. Pages : 2

Time : Three Hours



GUG/S/19/2382

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat sketches wherever necessary.

1. Write in detail application of Geology in mining.

OR

Write short notes on:-

- a) Physiographic guide
- b) Mineralogic guide.
- c) Location and extension of ore deposit.
- d) Duties of mining geologist

2. Give a detailed account on significance, necessity and objectives of mineral exploration.

OR

Write short notes on:

- a) Stages of mineral exploration.
- b) Evaluation of outcrop.
- c) Panning
- d) Types of drill patterns.

3. Describe in detail fundamentals of geochemical prospecting.

OR

Write short notes on:-

- a) Geochemical exploration practices in glacial environments.
- b) Lithogeochemical method of exploration.
- c) Hydrogeochemical method of exploration
- d) Statistical analysis and interpretation of geochemical prospecting data.

4. Give in detail principle, instrumentation, field procedure and application of gravity method.

OR

Write short notes on

- a) Field procedure and application of magnetic method
- b) Introduction to aeromagnetic survey.
- c) Resistivity method.
- d) Principle and instrumentation of seismic method.

5. Write short notes on.

- a) Intersecting Loci
- b) Ringed target
- c) Trenching
- d) Pitting
- e) Pedogeochemical method of exploration
- f) Atomic Geochemical method of exploration
- g) S. P. Method.
- h) I. P. Method.
