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- (B) Write the definition of residual ore. 2
- (C) Discuss the role of photogeological applications in mineral exploration. 4

#### Or

Write a brief on application of remote sensing techniques in mineral exploration.

(D) Discuss in detail, any case study of exploration of metallic mineral deposits.12

#### Or

Describe in detail, application of geomorphologial principles in mineral exploration.



Roll No	<b>Total No. of Sections : 4</b>		
	Total No. of Printed Pages: 4		

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### **III Semester Examination**

# M.Sc. GEOLOGY

### Paper III

[Mineral Exploration]

Time : Three Hours ] [ Maximum Marks : 80 [ Minimum Passing Marks : 16

Note: Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences. Part C (Short answer type) of each question will be answered 200-250 words. Part D (Long answer type) of each question should be answered within the word limit 400-450.

### Unit-I

- 1. (A) Define term geological reconnaissance. 2
  - (B) Write the meaning of term geological prospecting. 2
  - (C) Give a brief on the duty of geologists during drilling.

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Or

Write a note on stratigraphic and lithologic guides.

(D) What is drilling? Give an account on type of drills and diamond drilling.12

Or

Explain the various methods and procedures of sampling.

### Unit-II

- 2. (A) Define the principle on which the gravity method of prospecting is depends.2
  - (B) What are the parameters which are measured in seismic prospecting?
  - (C) Write a note on magnetometer. 4

Or

Give a brief on basic principles of resistivity method of prospecting.

(D) Describe, in detail, the various types of corrections applied to gravity data.12

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Or

What is radiometric survey? Give an account on application, and data interpretation procedures of radiometric survey.

### Unit-III

- 3. (A) Give definition of the Path finders of geochemical exploration.2
  - (B) What is the geochemical mobility?
  - (C) Make a neat illustration of the geochemical cycle.

Or

Write a brief on Biogeochemical Surveys.

(D) Give an account on principles of various borehole-logging methods. 12

Or

Describe the forms on primary and secondary dispersion of elements.

### Unit-IV

**4.** (A) What is placer deposit?

2