[This question paper contains 2 printed pages.]

Sr. No. of Question Paper: 898 E Your Roll No......

Unique Paper Code : 219604

Name of the Course : B.Sc. (H) Geology

Name of the Paper : Exploration Geology [ET-3]

Semester : VI

Duration: 3 Hours Maximum Marks: 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

- 2. All questions carry equal marks.
- 3. Answer any five questions.
- 1. Write short notes on:
 - (a) Bore hole logging
 - (b) Resistivity logging
 - (c) Channel sampling
- 2. Write notes on:
 - (a) Open pit mining versus Underground mining
 - (b) Geochemical prospecting
- 3. Briefly describe the utility of geophysical methods in prospecting of mineral deposits. Discuss in detail the gravity method.
- 4. What are geochemical anomalies? What is primary dispersion? How do they take place?

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5.	Write notes on:
	(a) Usefulness of core drilling in exploration
	(b) Prospecting guides
6.	Discuss briefly the following in terms of UNFC classification:
	(a) Codification
	(b) Quantification
7.	Define the following in terms of sampling (any five):
	(a) Mean
	(b) Mode
	(c) Median,
	(d) Standard deviation
	(e) Symmetrical and non-symmetrical variation
	(f) Krigging
8.	What are the principles of reserve estimation? Describe reserve estimation based on geometrical models (square blocks and triangular blocks).