

AQ – 845

First Semester M. Sc. (Part – I) Examination

(CBCS Pattern)

GEOLOGY

Paper – III

(Geochemistry and Analytical Techniques)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory and carry equal marks.
(2) Draw neat sketches wherever necessary.

1. Write in brief on the following :—

- (a) Rare Earth Elements.
- (b) Abundance of elements in the Earth.

OR

- (c) Transition Metal elements.
- (d) Atomic structure.

2. Describe in brief the Weathering indices and their applications in geosciences.

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OR

Give an account of geochemical classification of elements.

3. Write in brief on the following :—

- (a) Laws of Thermodynamics.
- (b) Concept of Free Energy.

OR

- (c) Growth of daughter isotopes.
- (d) Equilibrium constant.

4. Write in brief on the following :—

- (a) Geochemical cycle.
- (b) Biogeochemical Exploration.

OR

- (c) Eh - pH diagrams.
- (d) Element partitioning.

5. Describe in detail the dissolution procedure in geological and environmental samples.

OR

Principles and geological applications of Atomic Absorption Spectrometry.

