

M.Sc. (Geology) (NEP Pattern) Semester-I
NEP-55 / RMGEOT05 - Paper-V : Research Methodology

P. Pages : 2

Time : Three Hours



GUG/W/23/15111

Max. Marks : 80

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

1. Describe in detailed the topographic maps & base map for geological mapping.

OR

Write a note on the following:

- Types of geological sections
 - Objectives of geological mapping
 - Mapping methods in sedimentary terrain.
 - General principles of geological mapping.
2. Write a note on the use of computers & software as a tools in the area of geological problem solving.

OR

Write a note on the following.

- Windows – based software applications.
 - Rockworks
 - Petrograph
 - Aquachem
3. What is standard deviation? Describe its application in geological data.

OR

Write a short note on the following.

- Coefficient of variability
- Geometric mean
- Arithmetic mean
- Universe

4. Principle & geological applications of Spectrophotometry.

OR

Write a note on the following.

- a) Scanning electron microscopy
- b) Atomic absorption spectrophotometry
- c) Transmission electron microscopy
- d) X-ray diffractometry

5. Write a note on the following.

- a) Geological symbols in map.
- b) Topographic numbering by survey of India.
- c) Elvis
- d) Surfer
- e) Variance
- f) Medium
- g) Optical emission spectrometry
- h) Isotope dilution technique
