

M.Sc. (Geology) (NEP Pattern) Semester-II  
**PSCGEOT04 - Paper-I - Sedimentology, Geostatistics & Computer  
Application in Geology**

P. Pages : 2

Time : Three Hours



**GUG/W/24/15390**

Max. Marks : 80

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

1. Give a detailed account of classification and composition of mudstone.

**OR**

Write short notes on:

- a) Classification of Conglomerate.
- b) Structures of sedimentary rock.
- c) Classification of shales.
- d) Process of sediment transport.

2. Give detail account of heavy mineral study and provenance.

**OR**

Write short notes on-

- a) Paleocurrent analysis.
- b) Siliceous rocks.
- c) Phosphatic rocks.
- d) Halite deposits.

3. Describe the lithofacies of alluvial sedimentary environment.

**OR**

Write short notes on-

- a) Alluvial deposits.
- b) Proterozoic sedimentary basins of India.

- c) Quaternary sedimentation.
- d) Glacial Sedimentary environment.

4. Give a detailed account of use of computers and software as tools in solving the geological problems.

**OR**

Write short notes on-

- a) Arithmetic mean and median.
- b) Factor analysis.
- c) ArcGIS.
- d) GCD-Kit.

5. Write short notes on-

- a) Carbonate rocks.
- b) Secondary sedimentary structures.
- c) Physical diagenesis in carbonate rocks.
- d) Gypsum deposits.
- e) Delta deposits.
- f) Aeolian deposits.
- g) IgPet.
- h) Surfer.

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