

Bachelor of Science (B.Sc.) Fourth Semester  
**B.Sc. 24101 - GEOLOGY: Paper-I**  
**(Sedimentary Petrology and Metamorphic Petrology)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1292**

Max. Marks : 50

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

1. Describe various processes involved in the formation of clastic sedimentary rocks.

**OR**

Give an account of Residual Sedimentary deposits.

2. What is Metamorphism? Give an account of any four types of Metamorphism.

**OR**

Give an account of Thermal metamorphism of impure limestone.

3. Write brief notes on the following.

- a) Sedimentary facies.
- b) Conglomerates.
- c) Marble.
- d) Granitisation.

**OR**

Write brief notes on the following.

- e) Non-clastic textures.
- f) Argillaceous rocks.
- g) Maculose structure.
- h) Metasomatism.

4. Describe the following.

- a) Stratification.
- b) Sandstones.
- c) Schistose structure.

d) Grades of Metamorphism.

**OR**

Describe the following.

e) Current bedding.

f) Guano.

g) Depth zones of Metamorphism.

h) Migmatites.

**5.** Write on the following in not more than two sentences (Solve **any ten**).

a) Ripple marks.

b) Rain prints.

c) Graded bedding.

d) Peat.

e) Ooze.

f) Bog iron ore.

g) Name any two agents of metamorphism.

h) Name any two foliated rocks.

i) Porphyroblast.

j) Green Schist facies.

k) Eclogite facies.

l) Name any two low grade metamorphic rocks.

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