

B.Sc. (CBCS Pattern) Semester - III
USGEOT05 - Geology Paper-I : Igneous Petrology

P. Pages : 2

Time : Three Hours



GUG/S/23/11608

Max. Marks : 50

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

1. Give a brief account of various structures of Igneous Rocks. 10

OR

Write a note on following.

- a) Batholith and phacolith
- b) Rock cycle

2. Give a mineralogical classification of Igneous Rock. 10

OR

- a) Microstructure of Igneous Rock
- b) Mineralogical characteristic of alkaline Rock.

3. Describe Bowen's reaction series. 10

OR

- a) Magmatic differentiation
- b) Composition of Magma.

4. Give a brief account of crystallization Bicomponent Magma. 10

OR

Write a note on-

- a) Equilibria phase rule and phase.
- b) Chemical potential and phase rule.

5. Write a very short note on following solve **any ten**.

10

- a) Define petrology
- b) Crust
- c) Porphyritic texture
- d) Dyke.
- e) Peridotite.
- f) Name any two acidic igneous rock.
- g) Hybrid Rock.
- h) Assimilation.
- i) Define magma.
- j) Eutectic Point.
- k) Solidus.
- l) Liquids curve.
