

Bachelor of Science (B.Sc.) (CBCS Pattern) First Semester
USGEOT02 - Geology Paper-II
(Minerology and Elementary Mineral Optics)

P. Pages : 2

Time : Three Hours



GUG/W/18/11553

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 in brief various chemical properties of mineral.

OR

Give a brief account of the following :-

- i) Forms of minerals.
- ii) Fractures in mineral.

2. Give a brief account of Felspar group with reference to chemical, physical properties and geological occurrence.

OR

Describe the following :-

- i) Physical properties of hypersthene and Augite.
- ii) Physical properties of sodalite and nepheline.

3. Give a brief account of Mica family with reference to chemical, physical properties and geological occurrence.

OR

Describe the following :-

- i) Physical properties of hornblende and tremolite.
- ii) Physical properties of kyanite and sillimanite.

4. Draw a neat sketch of petrological microscope and add a note on functions of various parts of petrological microscope.

OR

Give brief account of the following :-

- i) Abbe refractometer.
- ii) Becke line method.

5. Write on the following in not more than two sentences solve **any ten**.

- a) Definition of minerals.
- b) Streak of mineral.
- c) Give Hardness of topaz and corundum.
- d) Name any two silicate structure.
- e) Name any two silicate minerals.
- f) Pyroelectricity.
- g) Pyrope.
- h) Almandine.
- i) Colour of olivine.
- j) Nicol prism.
- k) Refraction.
- l) Plane polarized light.
