

B.Sc. (CBCS Pattern) Sem-II
USGEOT04 - Geology Paper-II : Crystallography and Optical Mineralogy

P. Pages : 1

Time : Three Hours



GUG/W/22/11583

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 External features of crystal.

OR

Write notes on the following

- a) Law of constancy of interfacial angle
- b) Crystal notations

2. Describe in brief axial elements, symmetry elements and forms of galena class of cubic system.

OR

Write brief notes on the following

- a) Axial elements and symmetry elements of zircon class
- b) Forms of zircon class

3. Describe in brief axial elements, symmetry elements and forms of axinite class of triclinic crystal system.

OR

Write notes on the following:-

- a) Axial and symmetry elements of gypsum class
- b) Forms of gypsum class.

4. Describe with neat diagram optical characters of Augite, Hypersthene, Microcline and Garnet.

OR

Write notes on the following :-

- a) Interference colours
- b) Extinction and extinction angle

5. Write on the following is not more than two sentences solve **any ten**:-

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|----------------------|--------------------------------------|
| a) Solid angle | b) Unit cell |
| c) Open form | d) Brachy dome |
| e) Orthodome | f) Symmetry elements of baryte class |
| g) Hexagonal prism | h) Basal pinacoid of beryl class |
| i) Dihexagonal prism | j) Isotropism |
| k) Pleochroic haloes | l) Twinning |
