

B.Sc. (NEP) Semester-II  
**BSCGO601 - Core Geology : Crystallography and Optical Mineralogy**

P. Pages : 1

Time : Two Hours



**GUG/S/25/16774**

Max. Marks : 40

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

1. Discuss the various Laws of Crystallography. 8  
**OR**  
Write short notes on:  
a) Contact Goniometer. 4  
b) Weiss parameters. 4
2. Describe the Galena class of Isometric system in details. 8  
**OR**  
Write short notes on:  
a) Tetragonal prism. 4  
b) Brachy Dome. 4
3. Describe the Beryl class of Hexagonal system in details. 8  
**OR**  
Write short notes on:  
a) Clino Dome. 4  
b) Axinite class. 4
4. Describe the petrological Microscope and its function in details. 8  
**OR**  
Write short notes on:  
a) Optical Properties of Quartz. 4  
b) Optical Properties of Orthoclase. 4
5. Write short notes on **any eight**. 8  
a) Edge. b) Interfacial angle.  
c) Solid angle. d) Macro axis.  
e) tetragonal axial system. f) Brachy axis.  
g) monoclinic axial system. h) Basal pinacoid.  
i) Clino axis. j) Relief.  
k) Inclusion. l) Alteration.

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