April 2025
B.A./B.Sc.
Second Semester
MINOR – 2
GEOLOGY
Course Code: GLN 2.11
(Crystallography & Mineralogy)

Total Mark: 50   *Pass Mark: 20*
Time: 2 hours

I. Answer the following questions.

1.   Describe the symmetry elements and forms of normal class of
     hexagonal system.   12

2.   Explain silicate structures with appropriate diagrams and examples.
                                                              12

3.   Write a note each on any two of the following: 6×2=12
     (a) Extinction as an optical property of minerals
     (b) Twinning and its types
     (c) Interference colours

II. Answer <u>any two</u> of the following questions.

4.   Discuss crystal parameters and indices in brief.   7

5.   Give an account on the mica group of minerals.   7

6.   What is the difference between polymorphism and
     pseudomorphism? Define the various mechanisms of
     pseudomorphism in minerals.   3+4=7

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