No.	:	
	No.	No. :

Total No. of Questions: 11]

[Total No. of Printed Pages : 3

BPP-1087

M.Sc. (Previous) Examination, 2022 GEOLOGY

Paper - II

(Geochemistry, Crystallography and Mineralogy)

Time: 3 Hours [Maximum Marks: 75

Section-A (Marks: $2 \times 10 = 20$)

Note: Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section–B (Marks : $5 \times 5 = 25$)

Note: Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

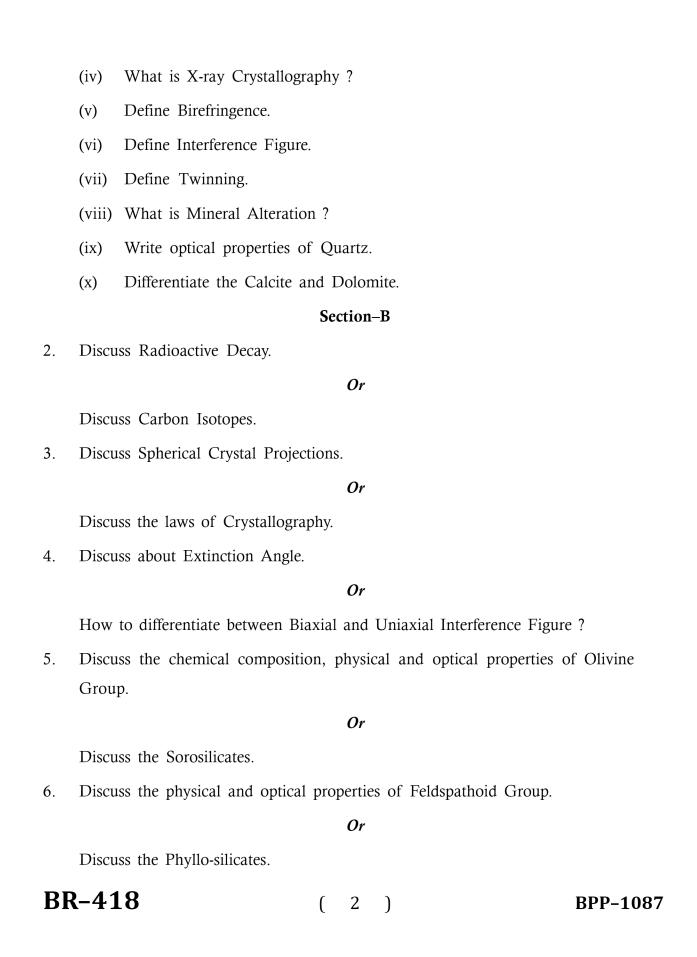
Section–C (Marks: $10 \times 3 = 30$)

Note: Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

- 1. (i) Define Geochemistry.
 - (ii) What are Stable Isotopes?
 - (iii) Define Crystal Symmetry.

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Section-C

- 7. Discuss the isotopes of Oxygen and Hydrogen.
- 8. Discuss the axes, class, symmetry and forms of Tetragonal System.
- 9. Discuss the important properties of minerals under polarized light.
- 10. Discuss the chemical composition, physical and optical properties and mode of occurrence of minerals of Pyroxene Group.
- 11. Discuss the gem minerals with their properties and varieties.