

B.Sc. Sem.-5 Examination

CC-301

Geology

March-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: (i) Draw neat diagrams whenever necessary.
(ii) Write proper answer number.

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- Q-1 Write a note on study of rock forming minerals. (14)
- OR
- Q-1 (a) Sorosilicates and phyllosilicates. (07)
(b) Paragonite group of minerals. (07)
- Q-2 Explain amphibole mineral family and pneumatolytic minerals. (14)
- OR
- Q-2 (a) Sulphates as a group in the earth's crust. (07)
(b) Availability of haloids in the earth's crust. (07)
- Q-3 Discuss the optical properties of minerals. (14)
- OR
- Q-3 (a) Factors controlling interference colours. (07)
(b) Zoning in minerals. (07)
- Q-4 Describe the prismatic class with reference to axial characters, symmetry and forms. (14)
- OR
- Q-4 (a) Forms of typical quartz crystal. (07)
(b) Twinning in cubic and orthorhombic crystals. (07)
- Q-5 **Attempt any seven questions out of twelve.** (14)
- (i) Define orthosilicates and metasilicates.
(ii) State the Si:O ratio for diopside and tremolite.
(iii) Write about cristobalite.
(iv) State the chemical composition of pyrope and grossularite.
(v) Give the importance of carbonates.
(vi) Name the titanium minerals with its lustre.
(vii) Define extinction. State the types of extinction.
(viii) How conosopic condition is produced?
(ix) Write about the anomalous polarization colours.
(x) Define hemimorphism and tetartohedrism.
(xi) Write about hemi macrodome.
(xii) State the twinning found in orthoclase.