

## B.Sc. Semester-5 Examination

CC 301

Geology

Time : 2-30 Hours]

March-2024

[Max. Marks : 70

- Q-1** Write a note on classification of minerals based on its use. (14)
- OR**
- Q-1** (a) Nesosilicates and cyclosilicates. (07)  
(b) Lepidolite group of minerals. (07)
- Q-2** Explain pyroxene mineral family and titanium minerals. (14)
- OR**
- Q-2** (a) Availability of silicates in the earth's crust. (07)  
(b) Garnet mineral family. (07)
- Q-3** Discuss uniaxial interference figures and its optic sign determination. (14)
- OR**
- Q-3** (a) Optic orientation. (07)  
(b) Types of twinning in thin sections. (07)
- Q-4** Describe the quartz type with reference to axial characters, symmetry and forms. (14)
- OR**
- Q-4** (a) Twinning in monoclinic and hexagonal crystals. (07)  
(b) Typical forms of hemipyramidal class. (07)
- Q-5** **Attempt any seven questions out of twelve.** (14)
- (i) Name the divisions of mineralogical classification.
  - (ii) Give mineral examples for sorosilicates and inosilicates.
  - (iii) Write about hauyne.
  - (iv) Name the monoclinic amphiboles.
  - (v) What is saussurite?
  - (vi) How thomsonite and natrolite distinguished?
  - (vii) State the characteristics of quartz wedge.
  - (viii) How extinction angle is measured in augite?
  - (ix) Name the factors controlling interference colours.
  - (x) State the twinning of rutile.
  - (xi) Draw a stereographic projection of tourmaline crystal.
  - (xii) State the hemimorphic forms of axinite type.

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