

B.Sc. Sem.-3 Examination

CC 202

Geology

December-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. Describe twinning in minerals with suitable examples. (14)
- OR
- Q-1. (a) Pleochroic minerals. (07)
(b) Refractive Index in minerals. (07)
- Q-2. Write an explanatory note on tetrahedrite type with reference to axial characters, symmetry elements and forms. (14)
- OR
- Q-2. (a) Characters of crystallographic axes and symmetry of rutile. (07)
(b) General forms of galena and pyrite type. (07)
- Q-3. Write note on discordant type of intrusions with examples from Gujarat. (14)
- OR
- Q-3. (a) Mechanical structures of sedimentary rocks. (07)
(b) Significance of metamorphic rocks. (07)
- Q-4. Write detail notes on origin, mineralogy distribution and uses of manganese deposits of India. (14)
- OR
- Q-4. (a) Mineralogy, mode of occurrence and uses of bauxite. (07)
(b) Distribution of diamond deposits in India. (07)
- Q-5. **Attempt any seven questions out of twelve.** (14)
- (i) Give two names of the mineral that showing twinkling.
(ii) Draw sketches of extinction types.
(iii) What is Becke line? Mention its significance.
(iv) Name the forms of apophyllite crystal.
(v) Draw a stereographic projection of pyrite.
(vi) Name the system and general form of zircon type.
(vii) Define geode structure and an augen structure.
(viii) Define phacolith and name the concordant intrusions.
(ix) Explain with sketch the origin pillow structure.
(x) Name at least two amphibole asbestos.
(xi) Give two applications of chromium and asbestos ore.
(xii) Give mode of occurrence of asbestos in India.