

B.Sc. Sem.-2 (Rep.) Examination**CC 3-P-103****Geology****May-2024****Time : 2-30 Hours]****[Max. Marks : 70**

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

Q-1 Describe the dynamics of the earth in detail. (14)

OR

Q-1 (a) Volcanic products. (07)

(b) Distribution of mountains in India. (07)

Q-2 Discuss reflection and refraction. (14)

OR

Q-2 (a) Construction of Nicol prism. (07)

(b) Passage of light through Nicol prism. (07)

Q-3 Explain classifications of crystals. (14)

OR

Q-3 (a) Plane of symmetry. (07)

(b) Zones and Interfacial angles. (07)

Q-4 Write a note on composition and origin of magma. (14)

OR

Q-4 (a) Textures of igneous rocks. (07)

(b) Classification of sedimentary rocks. (07)

Q-5 **Attempt any seven questions out of twelve.** (14)

- (i) Define crater and shield volcano.
- (ii) Give the epicenter and magnitude for 2001 earthquake of Gujarat.
- (iii) Define seismograph and seismogram.
- (iv) Write about nature of light.
- (v) Define wave length. Draw its figure.
- (vi) Name four parts of petrological microscope.
- (vii) Define crystal and crystallography.
- (viii) What are crystallographic notations? Name the types of notations.
- (ix) Write about size of the crystals.
- (x) Name the plutonic igneous rocks.
- (xi) Define diagenesis and fabric.
- (xii) Give uses of metamorphic rocks.