

BSc (NEP) Semester-2 Examination**DSC-C-121 T****Geology****Time : 2-00 Hours]****April-2024****[Max. Marks : 50****Instructions:** Draw neat diagrams wherever necessary.

Write proper answer number.

- Q-1. Explain and distinguished isotropic and anisotropic substances. [10]
- OR
- Q-1. (a) Passage of light through Nicol prism. [05]
(b) Nature of light, wave length and polarized light. [05]
- Q-2. Explain textures of igneous rocks with suitable examples. [10]
- OR
- Q-2. (a) Classification of sedimentary rocks. [05]
(b) Origin of metamorphic rocks with examples. [05]
- Q-3. Write notes on crystallographic notations. [10]
- OR
- Q-3. (a) Classification of crystals based on symmetry. [05]
(b) Forms in crystals. [05]
- OR
- Q-4. Define earthquakes with examples, elastic rebound theory and prediction of an earthquake. [10]
- OR
- Q-4. (a) Folded mountains. [05]
(b) Solid products of volcano. [05]
- Q-5. **Attempt any ten out of twelve.** [10]
- (i) Define double refraction.
- (ii) What is the philosophy of optical mineralogy?
- (iii) Define pleochroism.
- (iv) Name two hypabyssal igneous rocks.
- (v) Define diagenesis.
- (vi) Name two sedimentary rocks with localities.
- (vii) State the axial characters of triclinic system.
- (viii) Define axial ratio.
- (ix) State the types of faces.
- (x) Name three fumaroles.
- (xi) Write at least two examples of Mountains of the India.
- (xii) What you know about pacific ring of fire?