

BSc (NEP) Semester-2 Examination

DSC-C-121 τ

Geology

April-2024

Time : 2-00 Hours]

[Max. Marks : 50]

Instructions: Draw neat diagrams wherever necessary.

Write proper answer number.

Q-1. Explain and distinguish 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?