

Time : 2-30 Hours]

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

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- Q-1. Describe types of earthquakes, elastic rebound theory and prediction of an earthquake. (14)
- OR**
- Q-1. (a) Folded mountains. (07)
(b) Solid products of volcano. (07)
- Q-2. Explain and distinguished isotropic and anisotropic substances. (14)
- OR**
- Q-2. (a) Passage of light through Nicol prism. (07)
(b) Nature of light, wave length and polarized light. (07)
- Q-3. Write notes on crystallographic notations and centre of symmetry. (14)
- OR**
- Q-3. (a) Classification of crystals based on symmetry. (07)
(b) Forms in crystals. (07)
- Q-4. Explain textures of igneous rocks with suitable figures. (14)
- OR**
- Q-4. (a) Classification of sedimentary rocks. (07)
(b) Origin of metamorphic rocks with examples. (07)
- Q-5. **Attempt any seven questions out of twelve.** (14)
- (i) What are caldera and fumaroles?
(ii) Write at least four examples of mountains of the India.
(iii) Draw a labeled sketch of volcano.
(iv) Define double refraction and reflection.
(v) What is the philosophy of optical mineralogy?
(vi) Draw a figure of total internal reflection.
(vii) State the axial characters of triclinic system.
(viii) State the types of faces.
(ix) Define solid angle and indices.
(x) Name the rock each type.
(xi) Define diagenesis.
(xii) Name two hypabyssal igneous rocks.
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