

**M.Sc. I Semester Degree Examination, April/May - 2024****APPLIED GEOLOGY****Geomorphology and Structural Geology****(NEP)**

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with Question **No.1 (Q1)** is **Compulsory**, each question carries **equal** marks.

1. Answer the following questions. **14**
 - (a) Give a detailed account on geomorphic processes.
 - (b) Describe the fluvial geomorphology and depositional landforms.
2. Answer the following questions. **14**
 - (a) Discuss the classification of coastlines and shorelines.
 - (b) Explain the ocean floor morphology with sketch.
3. Answer the following questions. **14**
 - (a) Discuss the types of sand dunes.
 - (b) Explain landform features associated with volcanoes.
4. Answer the following questions. **14**
 - (a) What is deformation ? Describe the stages of deformation.
 - (b) Define foliation and describe the different types of foliation that exist.
5. Answer the following questions. **14**
 - (a) Describe the concept of plate tectonics and plate boundaries.
 - (b) Explain the process of seafloor spreading and continental drift.
6. Add notes on : **14**
 - (a) Aeolian processes
 - (b) Drainage pattern
7. Answer the following questions. **14**
 - (a) What is joint in geology ? Explain the types of joints that exist.
 - (b) Discuss the different types of faults and their characteristics.
8. Write short notes on : **14**
 - (a) Weathering
 - (b) Stress and strain
 - (c) Stages of river system

