

**U.G. 1st Semester Examination - 2024****GEOGRAPHY****[MAJOR]****Course Code : GEOG-MJ-T-1****(Geotectonics and Geomorphology)****[NEP-2020]**

Full Marks : 60

Time :  $2\frac{1}{2}$  Hours

*The figures in the right-hand margin indicate marks.  
Candidates are required to give their answers in their  
own words as far as practicable.*

1. Answer any **ten** questions from the following: $2 \times 10 = 20$ 

- a) What is meant by geochronologic unit?
- b) What is remnant magnetization of rocks?
- c) What is meant by isostatic adjustment?
- d) Differentiate anticline fold from syncline fold.
- e) What is Mohorovicic Discontinuity?
- f) What is L wave?
- g) What is fault scarp?
- h) What is batholith?
- i) What is earthflow?
- j) What is carbonation?
- k) What is exfoliation dome?
- l) What is meant by Inversion of Relief?

*[Turn over]*

- m) What is stack?
- n) What is Loess?
- o) What is a consequent river?

2. Answer any **four** questions from the following:

$$5 \times 4 = 20$$

- a) Distinguish between strike-slip fault and dip-slip fault.
- b) Outline the structure and composition of earth's crust.
- c) Illustrate any two extrusive volcanic landforms.
- d) Specify the relationship between climate and types of weathering.
- e) Elucidate the factors influence mass wasting.
- f) Explain the formation of oxbow lake with suitable diagrams.

3. Answer any **two** questions from the following:

$$10 \times 2 = 20$$

- a) Explain the sea floor spreading theory with suitable diagrams.
- b) Explain the mechanism of earthquakes in the light of plate tectonics theory with necessary illustration.
- c) Analyse the King's Model of slope development.
- d) Discuss the major erosional landforms formed by aeolian processes with suitable diagrams.