

U.G. 1st Semester Examination - 2025

GEOGRAPHY

[MAJOR]

Course Code : GEOG-M-T-1

(Geotectonics and Geomorphology)

[NEP-2020]

Full Marks : 60

Time : 2½ 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:

2×10=20

- a) Distinguish between *dip* and *strike*.
- b) What is isoclinal fold?
- c) What is thrust fault?
- d) Define the *epicenter* of an earthquake.
- e) What is the level of compensation according to Pratt?
- f) What is Panthalassa?
- g) What is the Age of Reptiles?
- h) What is oxidation?
- i) What is talus?

[Turn over]

- j) What is an Endrumpf?
- k) What is the Parallel Retreat in King's slope development theory?
- l) Differentiate a consequent stream from a subsequent stream.
- m) Distinguish between *attrition* and *solution*.
- n) Define mushroom rock.
- o) What is meant by the process of longshore drift?

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

$5 \times 4 = 20$

- a) Contrast the geomorphological characteristics of fault scarps and fault-line scraps.
- b) How does paleomagnetism provide evidence to the theory of polar wandering?
- c) Identify the distinctive features of the Paleozoic era.
- d) Outline the strengths and limitations of the slope development theory of Wood.
- e) Explain the mechanism of exfoliation and the resultant landforms.
- f) Highlight the key factors determining the formation of deltas.

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

$10 \times 2 = 20$

- a) Discuss the earth's internal structure through the lens of seismological evidence.
- b) Explain the mechanism of volcanic eruptions in the light of plate tectonics theory using suitable diagrams.
- c) Compare the landscape evolution theories of Davis and Hack with suitable diagrams.
- d) Elucidate the major erosional landforms formed by glacial processes with suitable diagrams.