U.G. 1st Semester Examination - 2025

GEOGRAPHY

[MAJOR]

Course Code : GEOG-M-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: 2×10=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?

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: 5×4=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: 10×2=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.

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