

167/Geog.(O)

UG/1st Sem/GEO-H-CC-T-01/23

**U.G. 1st Semester Examination - 2023**

**GEOGRAPHY**

**[HONOURS]**

**Course Code : GEO-H-CC-T-01**

**(Geotectonics and Geomorphology)**

**[Old CBCS Syllabus]**

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.*

**UNIT-I**

**(Geotectonics)**

**[Marks : 20]**

1. Answer any **three** from the following:  $2 \times 3 = 6$
- a) What is fault scarp?
  - b) What is orogenic movement?
  - c) What is nappe?
  - d) What is strike?
  - e) What is asthenosphere?

*[Turn over]*

2. Answer any **one** from the following:  $4 \times 1 = 4$
- a) Mention the characteristics of P and S seismic waves.
  - b) Differentiate SIAL from SIMA.
3. Answer any **one** from the following:  $10 \times 1 = 10$
- a) Classify and describe the major types of folds with suitable diagrams.
  - b) Explain the formation of folded mountains in the light of plate tectonic theory.

## UNIT-II

### (Geomorphology)

[Marks : 40]

4. Answer any **seven** from the following:  $2 \times 7 = 14$
- a) What is graded profile?
  - b) What is solifluction?
  - c) What is consequent river?
  - d) What is antidip stream?
  - e) What is doline?
  - f) What is arcuate delta?
  - g) What is blind valley?

- h) What is loess?
  - i) What is pediplain?
  - j) What is wave cut platform?
  - k) What is carbonation?
5. Answer any **four** from the following:  $4 \times 4 = 16$
- a) Distinguish between abrasion and attrition.
  - b) Distinguish between earthflow and mudflow.
  - c) Mention the characteristics of barchan.
  - d) Explain the exfoliation weathering with suitable diagram.
  - e) Explain the formation of inversion of relief.
  - f) Explain granular disintegration of rocks.
6. Answer any **one** from the following:  $10 \times 1 = 10$
- a) Illustrate with diagrams the landscape evolution model after Penck.
  - b) Describe the major erosional landforms produced by aeolian processes with suitable diagrams.