

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 : $2\frac{1}{2}$ 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.

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.