

PG/Geog/1st Sem/21(CBCS)

2021

**GEOGRAPHY**

Paper Code - GEOG - 101

(Geotectonics & Geomorphology)

(CBCS)

Full Marks : 40

Time : Two Hours

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

Answer any *four* questions selecting *one* from each unit.

**Unit - 1**

**(GEOTECTONIC)**

1. What is Tripple junction point? What are the types of triple junction plate boundary? Explain folded mountain building in light of plate tectonic theory?  
1+3+6
2. What is meant by discontinuity? State the characteristics of LVZ. Discuss Earth's interior in light of seismic wave.  
1+3+6

## **Unit - 2**

### **(FUNDAMENTAL CONCEPTS IN GEOMORPHOLOGY)**

3. What is Primarumpf? Give a short account of fundamental concepts in Geomorphology. Differentiate between cyclic and non cyclic concepts of landform development. 1+6+3
4. Define morphoclimatic region. Briefly discuss the process of grading and regarding of the river profile. What are the factors controlling the graded river. 1+6+3

## **Unit - 3**

### **(MORPHOMETRY)**

5. Define slope. Classify slope based on its Genesis. Elucidate on the major concepts of slope development. 1+3+6
6. Define channel morphology. Distinguish between braiding and anastomosing channel. Explain the properties of channel fluid dynamics and hydraulic geometry. 1+3+6

## **Unit - 4**

### **(GEOMORPHIC PROCESSES AND HAZARDS)**

7. Define base level of erosion. Differentiate between alluvial cones and fans. Give a detail account on stages of pool and riffle formation. 1+3+6
8. What is Periglaciation? Briefly explain the processes of glacial erosion. Describe the major landforms associated with periglacial processes. 1+3+6

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