### Geography (P.G.)
### [CBCS]
### M.Sc. First Semester End Examination-2023
### (Regular & Supplementary Paper)
### PAPER-101
### [Geotectonic and Geomorphology]

*Full Marks: 40*                    *Time: 02 Hrs*

*The figures in the right-hand margin indicate marks.*
*Candidates are required to give their answers in their own words as far as practicable.*
*Illustrate the answers wherever necessary.*

### Unit: 1

### Full Marks 20

### [Geotectonics]

### Group A

**Answer any one question of the following:**          **1x8=8**

1) Explain how plate tectonics is related to the different volcanic activities and associated landforms.

2) Analyze the mechanism of origin and maintenance of magnetic field of the earth.          8

### Group B

**Answer any two questions of the following:**          **2x4= 8**

3) Briefly discuss the formation of Tsunami waves along the coastal belt.          4

4) Describe the key forces that drive earth's lithospheric plate.     4

5) Elucidate the principle of radio-carbon dating for determining the age of rocks.     4

6) How does sea floor spreading relate to paleomagnetism?     4

## Group C

**Answer any two questions of the following:**     **2x2= 4**

7) What is meant by 'half life of elements?     2

8) Define magnetic equator.     2

9) What is flight from the pole?     2

10) Distinguish between era and epoch.     2

## Unit: 2

## Full Marks 20

## [Geomorphology]

## Group A

**Answer any one question of the following:**     **1x8=8**

1) Elucidate the process of pediplanation following L.C.King.

2) Explain landforms developed by interruption in the cycle of fluvial erosion.

## Group B

**Answer any two questions of the following:**     **2x4= 8**

3) Illustrate complex response as proposed by Chorley and Schumm.

4) Classify river terrace based on different properties.

5) Briefly describe process-from relationship on different slope elements.

6) How does spatial scale associate to temporal scale in geomorphology?

## Group C

**Answer any two questions of the following:**     **2x2= 4**

7) Define magnitude-frequency distribution.

8) What is entropy maximisation?

9) Define knick point.

10) What is meant by morphogenetic region?

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