



Raja N. L. Khan Women's College (Autonomous)

2022

Geography

P.G. CBCS

First Semester Examination 2021

Paper: GEO-101: Geotectonics and Geomorphology

Full Marks - 40

Time- 2hrs

*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 answers as necessary.*

### **Unit: 1- Geotectonics**

#### **Group- A**

1. Answer any one question 1x8=8
  - a. Briefly discuss the mechanism of origin and maintenance of magnetic field of the earth.
  - b. Discuss the major evidences of Neo-tectonics of Tertiary and Quaternary periods over the earth surface with suitable examples.

#### **Group- B**

2. Answer anytwo questions 2x4=8
  - a. Explain the mechanism of development of tsunami waves.
  - b. What are the major evidences of Neo-tectonic activities across the world?
  - c. Explain the principles of relative dating.
  - d. Explain the concepts of east and west magnetic declination. Use suitable illustrations.

#### **Group- C**

3. Answer anytwo questions 2x2=4
  - a. Define "hot spot" in plate tectonics.
  - b. What is radio-carbon dating?
  - c. Define polar wandering.
  - d. Differentiate between Miogeosyncline and Polygeosynclines.

## Unit-2: Geomorphology

### Group- A

1. Answer any one question 1x8=8
- a. How are spatial and temporal scales interrelated in the working of geomorphic processes and resultant landforms?
  - b. Critically explain the landscape evolution theory of Chorley and Schumm.

### Group- B

2. Answer any two questions 2x4=8
- a. Elucidate self-regulating nature of landscape.
  - b. Briefly explain the slope development process following L C King
  - c. Examine the impacts of sea level rise on landscape evolution.
  - d. Briefly discuss the process of pediplanation.

### Group- C

3. Answer any two questions 2x2=4
- a. Define geomorphic threshold.
  - b. What is meant by morphogenetic regions?
  - c. Define glacio-eustatism.
  - d. What is signature-landform?