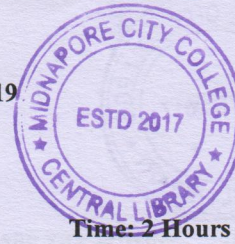


PG (NEW) CBCS  
M.Sc. Semester-I Examination, 2019  
GEOGRAPHY  
PAPER: GEO-101  
(Earth's Surface Process)



Full Marks: 40

Time: 2 Hours

**Write the answer for each unit in separate sheet**

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

GEO 101.1: Geotectonics

Marks: 20

**GROUP-A**

1. Answer any one question: 1×8=8
- a) Discuss the techniques of absolute and relative dating in explaining the sequential changes of earth surface features.
- b) Discuss the mechanism of plate dynamics in explaining the volcanism in the Pacific Ocean and continental margins around the ocean.

**GROUP-B**

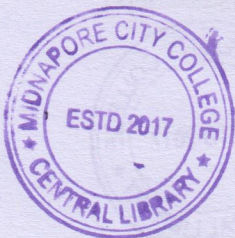
2. Answer any two questions: 2×4=8
- a) Give evidences in support of the occurrences of Neo-tectonics in the Himalayan Mountain.
- b) Explain the significances of geomagnetic polarity reversal and Paleomagnetic time scale.
- c) Identify the interior structure of the earth.
- d) How far the earthquake can be explained with the application of plate tectonic theory.

**GROUP-C**

3. Answer any two questions: 2×2=4
- a) What is plate dynamics?
- b) What is flysh sediment?
- c) Define the idea of orogenesis.
- d) Identify the morphologic signatures of the subduction zone.

(Turn Over)





(2)

GEO 101.2: Geomorphology**Marks: 20****GROUP-A**

1. **Answer any one question:** **1×8=8**
- a) Elucidate the landforms developed by differential weathering.
  - b) Identify and explain the possible areas of application of Geomorphology in hydrology.

**GROUP-B**

2. **Answer any two questions:** **2×4=8**
- a) Discuss on the different types of flow pattern involved in delta formation.
  - b) Explain the forces involved in entrainment by a natural river.
  - c) Make a comparative assessment of the principles of uniformitarianism and catastrophism with suitable examples.
  - d) Discuss the slope evolution theory by W. Penck.

**GROUP-C**

3. **Answer any two questions:** **2×2=4**
- a) Define grade.
  - b) How does Ionic Potential lead to chemical weathering?
  - c) What are the different types of base level?
  - d) How does dynamic equilibrium differ from dynamic metastable equilibrium?

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