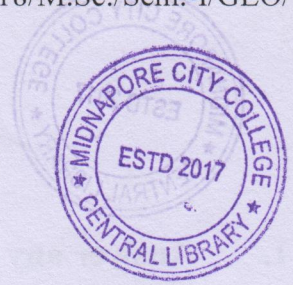


Total page: 2

PG (NEW) CBCS
M.Sc. Semester-I Examination, 2018
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) Explain the processes of orogenesis in the light of Plate Tectonic Theory with proper diagram and example. 8
- b) How does a plate motion can be reconstructed through paleo-magnetic polar wandering curve? 8

Group-B

- 2. Answer any two questions: 2×4=8**
- a) Describe the techniques of relative dating in brief. 4
- b) Explain the process involved in geomagnetic polarity reversal. 4
- c) Explain the role of supernova explosion for the formation of proto stars and planets. 4
- d) Critically discuss the 'Neotectonism' with suitable evidences. 4

Group-C

- 3. Answer any two questions: 2×2=4**
- a) Define magnetic anomaly. 2
- b) What is accretionary prism? 2
- c) Write a short note on 'Meghalayan Age.' 2
- d) Define mantle plume.

(Turn Over)

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

- 1. Answer any one question: 1×8=8**
- a) Elucidate the relative importance of different base levels in particular landscape settings. What is threshold energy for entrainment? 5+3=8
- b) Explain the processes operating on different slope units. Elucidate with illustration the slope evaluation model of A. Wood. 8

Group-B

- 2. Answer any two questions: 2×4=8**
- a) How is geomorphological knowledge applied in regional planning? 4
- b) Write about the geomorphic significance of river terrace. 4
- c) Briefly explain the theories of flood plain formation. 4
- d) Explain the mechanism of entrainment by a river. 4

Group-C

- 3. Answer any two questions: 2×2=4**
- a) How does Ionic Potential lead to leaching and chemical weathering? 2
- b) Define complex response. 2
- c) Define grade. 2
- d) Define entropy maximization. 2
