

2014

M.A./M.Sc.

1st Semester Examination

GEOGRAPHY

PAPER—GEO-101

Full Marks : 40

Time : 2 Hours

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.

Illustrate the answers wherever necessary.

Write the answer Questions of each Unit in separate books

Unit-I

(Geotectonics)

Group—A

1. Answer any *one* questions from the following : 8×1
 - (a) Examine the radiological techniques of absolute dating with their limitations.
 - (b) Identify the evidences of Neo-tectonics on the coral coasts and rocky coasts of India.

(Turn Over)

Group—B

2. Answer any *two* from the following questions : 4×2
- (a) Briefly discuss the physical sources of the earth's magnetic field.
 - (b) Why is paleomagnetism considered as the most persuasive evidence for plate tectonics ?
 - (c) Briefly explain the origin of universe with special reference to stellar evolution.
 - (d) What are the causes of plate dynamics ?

Group—C

3. Answer any *two* from the following questions : 2×2
- (a) How does the principle of Superposition help in relative dating ?
 - (b) What does a polar wandering curve signify ?
 - (c) Define 'Neogene'.
 - (d) What is flysh sediment ?

Unit-II

(*Geomorphology*)

Group—A

1. Answer any *one* from the following question : 8×1

- (a) Discuss the relationship between grain size and entrainment in a fluvial system.
- (b) Explain the scope of applying knowledge of geomorphology in mineral exploration.

Group—B

2. Answer any *two* questions : 4×2

- (a) What are the major approaches to control flash flood in a mountainous area?
- (b) How is 'safety factor' assessed in rapid mass movement?
- (c) Elucidate essential properties of a graded profile.
- (d) Establish relation between downcutting and parallel retreat for a slope across actively eroding river.

Group—C

3. Answer any *two* questions :

2×2

- (a) Define 'geomorphic threshold'.
 - (b) What is 'local baselevels' of erosion ?
 - (c) Define "cation exdrange capacity". ?
 - (d) What is dynamic metastable equilibrium ?
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