

2015

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 : 1×8
 - (a) Explain the origin and evolution of Universe with special reference to Stellar evolution.
 - (b) Explain the nature and origin of the Earth's magnetism.

(Turn Over)

Group—B

2. Answer any *two* from the following questions : 2×4
- (a) How far the vulcanism can be explained with the application of Plate tectonics theory ?
 - (b) Discuss the concept of geomagnetic polarity reversal.
 - (c) What are the geomorphic and structural evidences of neotectonic activities ? Give examples from the Sub-Himalayas.
 - (d) Examine the limitations of radiocarbon dating.

Group—C

3. Answer any *two* from the following questions : 2×2
- (a) What is orogenesis ?
 - (b) What is 'Ophiolite Complex' ?
 - (c) Define paleomagnetism.
 - (d) What is the significance of relative dating ?

Unit-II

(*Geomorphology*)

Group—A

1. Answer any *one* from the following question : 1×8
- (a) How do you apply geomorphic knowledge in water management of a region ?
 - (b) Discuss the parameters and importance of development of the equilibrium profile of a river.

Group—B

2. Answer any *two* questions : 2×4
- (a) How are the changes in land form studied through combination of historical and functional approaches ?
 - (b) How is decay equilibrium different from dynamic metastable equilibrium ? Give examples.
 - (c) Discuss on the factors guiding morphology of an alluvial fan.
 - (d) Explain how slope replacement evolves into a concave profile.

Group—C

3. Answer any *two* questions : 2×2

- (a) How does a scree slope evolve ?
 - (b) Define "base exchange capacity".
 - (c) What are the principal causes of change in base level ?
 - (d) Define "liquefaction".
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