

2013

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 : 8×1
 - (a) Explain the major tectonic landforms evolved at the subduction boundary and its adjacent areas citing examples from the Andes system of the circum-pacific Ring of Fire.

(Turn Over)

- (b) Justify the concept of sea-floor spreading in explanation of the opening of the Atlantic Ocean and the resultant tectonic land forms.

Group—B

2. Answer any *two* questions : 4×2
- (a) Identify the stages of formation of black holes.
 - (b) Explain the role of seismic waves in identification of Internal Zones of the earth and their sub-divisions.
 - (c) What are the causes of plate dynamics ?
 - (d) Discuss the concept of palaeomagnetism.

Group—C

3. Answer any *two* questions : 4×2
- (a) What is 'accretionary prism' ?
 - (b) How did the Great East African Rift Valley form ?
 - (c) What is 'flysch' sediment ?
 - (d) How did foreland basin evolve in the Himalayan orogene ?

Unit-II
(Theoretical Geomorphology)

Group—A

1. Answer any *one* question : 8×1
- (a) Discuss the significance of systems approach in geomorphology with examples.
 - (b) Illustrate the effects of large dam on fluvial system with particular reference to base level.

Group—B

2. Answer any *two* questions : 4×2
- (a) Explain how steady state in an open geomorphic system can be achieved.
 - (b) How does 'ionic potential' regulate — chemical weathering?
 - (c) "The lowest common denominators of world landscapes are slopes"—explain.
 - (d) Explain with illustration, the difference in the development of 'tor' from inselberg.

Group—C

3. Answer any two questions : 2×2

- (a) Define '*complex response*' to a geomorphic threshold.
 - (b) What do you mean by '*repose angle*' ?
 - (c) What are taffonis ?
 - (d) How does a *wanning slope* develop ?
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