

M.A./M.Sc. Part-I Examination, 2013
GEOGRAPHY

PAPER— I

Full Marks : 100

Time : 4 hours

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

Illustrate the answers wherever necessary

MODULE — I

(Geotectonics and Geomorphology)

[Marks : 50]

**Answer any four questions selecting two
from each Group**

GROUP — A

Answer any two questions : 15 × 2

- 1. Why is plate tectonics called global tectonics ?**

(Turn Over)

(2)

Mention the major orogenic movements that took place during the different geological periods. 5 + 10

2. Explain the current theories on origin of the earth (at least three). 5 + 5 + 5
3. Enumerate and explain the different weathering landforms with special reference to tropical region. Explain the evolution of top on granitic rock. 10 + 5
4. Bring out the application of geomorphological knowledge and techniques for the regional planning and development. What is applied geomorphology? 10 + 5

GROUP - B

Answer any two questions : 10 × 2

5. Explain the concept of uniformitarianism. 10
6. Enumerate the elements of slope and what are the responsible factors for the development of slope? 5 + 5

(3)

7. Define the term neo-tectonics. Discuss the major neo-tectonic events with respect to the break-up of the Gondwana Land, continental rifting and island arcs of the Pacific. 2 + 8
8. Write a short notes on (any two) : 5 + 5
 - (i) Concept of Grade
 - (ii) Interruptions of the fluvial cycle
 - (iii) Slope facets
 - (iv) Types of Base level.

MODULE - II

(Oceanography and Hydrology)

[Marks : 50]

Answer any four questions selecting two from each Group

GROUP - A

Answer any two questions : 15 × 2

1. Elucidate impacts of air-sea interactions on

(4)

global atmospheric and hydrological systems.
Illustrate the importance of tidal range on
estuarine system. 10 + 5

2. Classify aquifers with illustrations. Enumerate
the factors of ground water recharge. 5 + 10
3. Elucidate the major structural and morphological
features of the ocean floor found between the
shoreline and mid-Oceanic ridges with reference
to plate Tectonics. What is hydrothermal
vent? 13 + 2
4. Define watersheds with illustration. Analyse the
principles of integrated watershed management.
5 + 10

GROUP - B

Answer any two questions : 10 × 2

5. Discuss any of the established theories on
origin and permanency of Ocean basins. 10
6. Assess the importance of constructing water
budget in basin scale. 10

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(Continued)

(5)

7. Discuss the factors regulating tides of any inlet.
Narrate any model of wave formation. 5 + 5
8. Classify coral reefs. Discuss theories for the
origin of coral reefs. 3 + 7

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