C/16/DDE/M.A/M.Sc./Part-I/Geo./1

2016

DDE

M.A./M.Sc. Part–I Examination

GEOGRAPHY

PAPER—I

Full Marks : 100

Time : 4 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 question of each Group in separate books

MODULE–1

(Geotectonics and Geomorphology)

[*Marks* : 50]

Group—A

Answer any *two* questions. 2×15

1. What is Volcanism ? Elucidate the types and processes and volcanism with the ideas of Plate tectonics theory. 3+12

(Turn Over)

2. Explain the various types of coastal erosional features and their origin. What is the role of sea level changes in the formation of raised beach features? 7+8

3. What is rejuvenation of Landscape? Diagrammatically examine the landforms produced by rejuvenation. 3+12

4. Explain the concept of Isostasy put forwarded by Pratt. Identify the structure and consumption of interior of the earth. 15

Group—B

Answer any *two* questions : 2×10

5. Describe the evolution of glacial landforms. 10

6. Differentiate between weathering and mass-wasting. Describe the major landforms produced by mass-wasting processes. 4+6

7. Discuss the nebula hypothesis to explain the origin of the solar system. 10

8. Write short notes (any *two*) : 2×5

(i) Applied geomorphology ;

(ii) Uniformitarianism ;

(iii) Concept of Grade ;

(iv) Influence of rocks on landforms.

MODULE–2

(Oceanography and Hydrology)

[*Marks : 50*]

Group—A

Answer any *two* questions. 2×15

1. Critically examine the differences between continental and oceanic crusts. Discuss the origin and permanency of ocean basins. 7+8

2. Distinguish the boundaries and associated processes of onshore and offshore oceanic regions. Identify the geomorphology of onshore regions of the coastal belt. 6+9

3. What is potential evapotranspiration? Discuss the processes of groundwater recharge and discharge. 3+12

4. Explain how the ocean circulations take place. What is the role of ocean circulations and currents in modification of marine ecosystem? 6+9

Group—B

Answer any *two* questions : 2×10

5. Describe the major functions of wetlands. Identify the multiple types of wetlands of West Bengal. 5+5

6. What is hydrological system ? Explain the systematic approach of a river basin hydrology. 3+7

7. What is infiltration ? Discuss the essential factors that controls the infiltration process. 3+7

8. Write short notes (any *two*) : 5+5

   (i) Coral reefs ;

   (ii) Coastal dune ;

   (iii) Artesian well ;

   (iv) T–S diagram.

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