2019

GEOGRAPHY

[Honours]

PAPER – I

Full Marks : 90

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

GROUP – A

Answer any **five** questions : 10 × 5

UNIT – I

1. Critically assess Nebula hypothesis in explaining origin of earth. 10

Or

Illustrate internal structure of earth highlighting physical and chemical characteristics of different layers. 10

UNIT – II

2. Explain the nature and distribution of major tectonic events especially volcanism and earthquake with plate tectonics. 10

Or

Explain evidences and mechanism of Sea-Floor spreading with suitable diagrams. 10

UNIT – III

3. Describe the landforms resulted from weathering citing examples. 10

Or

Illustrate the landforms developed by interruption in fluvial cycle of erosion. 10

UNIT – IV

4. Briefly describe with illustration the landforms developed by deposition in coastal region. 10

Or

Explain the landforms developed by aeolian process in different stages of erosion. 10

UNIT – V

5. Explain the mechanism of flow of sub-surface water with Darcy's law. Classify aquifer. 7 + 3

Or

Assess the importance of river basin as a hydrological unit. 10

GROUP – B

Answer any **five** questions : 4 × 5

UNIT – I

6. Classify igneous rocks based on chemical composition.

Or

Compare between the isostatic models of Pratt and Airy.

UNIT – II

7. How does continental drift differ from plate tectonics.

Or

Define strike, dip, axis and hinge of a fold with illustration.

UNIT – III

8. Define various concepts of equilibrium applied in evolution of landforms with illustration and examples.

Or

How does fault scarp differ from fault-line -scarp.

UNIT – IV

9. Describe with illustration, different types of channel pattern.

Or

Discuss on the mechanism of glacial erosion.

UNIT – V

10. What are the factors of infiltration ?

Or

Illustrate the mechanism of tide.

GROUP – C

Answer any **ten** questions : 2×10

11. Mention major geological events in pleistocene period.

12. Define level of compensation.

13. How does 'P' wave differ from 'S' wave ?

14. How does acidic igneous rock differ from basic igneous rock ?

15. Define 'Benioff zone'.

16. What is 'low angle reverse fault' ?

17. What is plunging fold ?

18. Define Geosyncline.

19. How is system approach applied in Geomorphology ?

20. Assess the relevance of Geomorphology as historical science.

21. Define Geomorphic threshold.

22. What is 'temporary base level of erosion' ?

23. What is 'inversion of topography' ?

24. Define belted outcrop plain.

25. What is hygroscopic moisture ?
