

2019

Part – II

GEOGRAPHY

(Honours)

(New Syllabys)

Paper – III

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**

(Long answer type questions)

Answer any **five** questions within 500 words.

10×5

1. What are the controlling factors of insolation? Discuss the significance of terrestrial heat balance of the earth.

4+6

Or

Write the characteristics of Jet stream. State the relationship between Jet stream and Indian sub-continental monsoon.

6+4

**P.T.O.**

2. Classify the climatic region after scheme of Koppen. 10

*Or*

Explain the mechanism for genesis of Tropical Cyclone. 10

3. Discuss in short chemical properties of soil with suitable examples. 10

*Or*

Evaluate the role of climatic factors in soil formation in different region of the world. 10

4. What are the elements of the eco-system? Discuss how is the balance in an eco-system maintained by food web. 4+6

*Or*

Describe the nature of energy flow in a pond and meadow eco-systems with suitable sketches. 5+5

5. Evaluate the significance of bio-diversity. Mention the different process of conservation of bio-diversity. 4+6

*Or*

Classify the terrestrial biomass. Discuss the characteristics of selva biome. 4+6

## Group – B

(Semi-long answer type questions)

Answer any **five** questions within 250 words. 4×5

6. Distinguish between ground inversion and upper air inversion of temperature. 4

Or

Write the relationship between air pressure belt and planetary wind system. 4

7. What are the basic elements of weather forecasting? 4

Or

Mention the merits of Thorntwaite's classification of world climates. 4

8. What are the causes of soil erosion? 4

Or

Distinguish between soil texture and soil structure. 4

9. Distinguish between food chain and food web. 4

Or

What do you mean by bio-geo-chemical cycle? 4

10. Mention the role of light and wind on plant ecology. 4

Or

Distinguish between Ecotope and Ecotone. 4

## Group – C

(Short answer type questions)

- Answer any **four** questions within **50** words. 2×10
11. What is Isotherm? 2
  12. Define Dry adiabatic lapse rate. 2
  13. Define the term Bioconcentration. 2
  14. Define Decalcification. 2
  15. What is tropopause? 2
  16. Define primary productivity. 2
  17. Differentiate in-situ and ex-situ species conservation. 2
  18. What is badland topography? 2
  19. What is aerosol? 2
  20. What is cation exchange capacity? 2
  21. What is 'MONEX-73'? 2
  22. What is 'PE' Index? 2
  23. Distinguish between Solum and Regolith. 2