

2020

GEOGRAPHY**[HONOURS]****Paper : II****[NEW SYLLABUS]**

Full Marks : 75

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.***GROUP-A****(Soil Geography)****[Marks : 35]**

1. Answer any **three** questions: 1×3=3
- Define Pedon.
 - What is wilting water?
 - Define soil air.
 - Define Pedology.
 - What is humus?
2. Answer any **five** questions : 2×5=10
- What is laterisation?

- State the characteristics of the 'B' horizon of soil.
- What are the basic characteristics of azonal soils?
- What is meant by the term *histosols*?
- Define soil pH.
- Differentiate eluviation from illuviation.
- Why saline soil is alkaline in nature?
- What is solonchak?

3. Answer any **two** questions: 6×2=12
- Highlight the characteristics of *chernozems* and *laterites*.
 - Diagrammatically represent an ideal soil profile showing the main horizons.
 - Give an outline of the soil composition with a suitable diagram.
4. Answer any **one** question: 10×1=10
- Outline soil orders and their major characteristics according to USDA soil taxonomy.
 - Describe the soil forming factors in brief with necessary illustrations.

[Turn over]

GROUP-B
(Biogeography)

[Marks : 40]

5. Answer any **two** questions: 1×2=2
- a) Define ecology.
 - b) What is meant by primary producer?
 - c) Define biosphere.
 - d) What is energy flow?
6. Answer any **two** questions: 2×2=4
- a) What is meant by bio-geochemical cycle?
 - b) Narrate the global distribution of tropical rainforest biome.
 - c) What do you mean by 'biodiversity loss'?
 - d) Differentiate *food chain* from *food web*.
7. Answer any **four** questions : 6×4=24
- a) Explain moisture as a controlling factor in the distribution of plant over the globe.
 - b) Account for the life forms of tropical grassland.
 - c) Illustrate the mechanism of carbon cycle in the biosphere.

- d) Elaborate the biogeographic characteristics of the tropical desert biomes.
 - e) Outline the scope of Biogeography.
 - f) Illustrate the flow of energy in a lake ecosystem.
8. Answer any **one** question: 10×1=10
- a) Establish the relationship between the global distribution of precipitation and the distribution of the world biomes.
 - b) Account for the effects of climate and topography on the distribution of plants.
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