

2020

GEOGRAPHY**[HONOURS]****Paper : II****[OLD 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: $1 \times 3 = 3$
- What is meant by 'soil horizon'?
 - What do you mean by soil reaction?
 - What is humus?
 - What is soil moisture?
 - Define 'soil'.
2. Answer any **five** questions : $2 \times 5 = 10$
- What do you mean by soil monolith?

- Define 'Ped'.
- What do you mean by decalcification?
- What is truncated profile?
- Distinguish between eluviation and illuviation.
- What is podzol hardpan?
- What do you mean by base exchange?
- What is pH scale?

3. Answer any **two** questions: $6 \times 2 = 12$
- Highlight the characteristics of zonal soils.
 - 'Rainfall is one of the major determining factor of soil erosion'— Justify the statement.
 - Explain in brief the impact of soil acidity on plant growth.
4. Answer any **one** question: $10 \times 1 = 10$
- Discuss in brief the different methods of soil conservation.
 - Briefly describe the physical properties of soil with necessary illustrations.

[Turn over]

GROUP-B
(Biogeography)
(Marks : 40)

5. Answer any **two** questions: 1×2=2
- a) Define biome.
 - b) What is meant by 'food chain'?
 - c) What is energy flow?
 - d) Define ecosystem.
6. Answer any **two** questions : 2×2=4
- a) What is energy pyramid?
 - b) Name the major Temperate Grasslands.
 - c) What is GPP?
 - d) Define heterotrophs.
7. Answer any **four** questions : 6×4=24
- a) Enumerate the basic characteristics of biosphere.
 - b) Mention the types of plant species in boreal forest biome.
 - c) Explain the role of decomposers in ecosystem.
 - d) Assess the ecological importance of tropical rainforest biome.

- e) Discuss in brief the significance of energy flow in ecosystems.
 - f) Explain the mechanism of nitrogen cycle.
8. Answer any **one** question : 10×1=10
- a) Discuss the environmental characteristics of temperate grassland biome and mention the present day modification of this biome.
 - b) Interpret the relationship between world distribution of temperature and precipitation and distribution of the world biomes.