

**U.G. 6th Semester Examination - 2025**

**GEOGRAPHY**

**[HONOURS]**

**Discipline Specific Elective (DSE)**

**Course Code : GEO-H-DSE-T-04A**

**(Soil and Bio Geography)**

**[NEW SYLLABUS under CBCS]**

**Full Marks : 60**

**Time :  $2\frac{1}{2}$  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.*

1. Answer any **ten** of the following: **2×10=20**
- i) Define soil profile.
  - ii) What is regolith?
  - iii) Why is soil pH a significant soil property?
  - iv) Differentiate soil erosion from soil degradation.
  - v) Why is soil classification required for land management?
  - vi) What is soil moisture?

*[Turn Over]*

vii) Distinguish between ecosphere and biosphere.

viii) What is ecotone?

ix) Who are scavengers?

x) How do green plants play a significant role in energy flow of an ecosystem?

xi) What is meant by land capability?

xii) Highlight the geographical extension of Tropical rain forest biome.

xiii) What is biodiversity?

xiv) What is the IUCN Red List?

xv) What is the objective of wildlife conservation?

2. Answer any **four** of the following:  $5 \times 4 = 20$

i) Write down the impact of climate on soil formation.

ii) Classify and discuss soil structure in brief.

iii) What is the role of organic matter in soil?

iv) Bring out the concept of trophic structure.

v) Why is biogeochemical cycle significant in environment?

vi) What are the fallouts of deforestation?

3. Answer any **two** of the following:  $10 \times 2 = 20$

i) Explain the mechanism of podsolisation and profile characteristics of podsol soil with necessary illustrations.

ii) State the causes and managerial strategies of soil erosion.

iii) Present soil orders with their major characteristics according to USDA soil taxonomy.

iv) Discuss different types of biodiversity and causes of biodiversity loss.

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