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?

- Distinguish between ecosphere and biosphere.
- viii) What is eeotone?
- Who are scavengers? ix)
- How do green plants play a significant role in energy flow of an ecosystem?
- What is meant by land capability? xi)
- Highlight the geographical extension of xii) Tropical rain forest biome.
- xiii) What is biodiversity?
- What is the IUCN Red List?
- What is the objective of wildlife conservation? xv)
- Answer any **four** of the following:
 - i) Write down the impact of climate on soil formation.
 - Classify and discuss soil structure in brief.
 - What is the role of organic matter in soil?
 - Bring out the concept of trophic structure. iv)
 - Why is biogeochemical cycle significant in v) environment?
 - What are the fallouts of deforestation?

- Answer any two of the following: 3. $10 \times 2 = 20$
 - Explain the mechanism of podsolisation and profile characteristics of podsol soil with necessary illustrations.
 - State the causes and managemental strategies of soil erosion.
 - iii) Present soil orders with their major characteristics according to USDA soil taxonomy.
 - Discuss different types of biodiversity and causes of biodiversity loss.