

U.G. 6th Semester Examination - 2024**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 : 2½ 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) Differentiate soil from land.
 - ii) What is humus?
 - iii) Why is soil moisture a significant soil property?
 - iv) What is the significance of nitrogen in soil?
 - v) Differentiate land cover from landuse.
 - vi) What is capillary water?
 - vii) What is bog soil?

[Turn Over]

- viii) Differentiate ecology from biology.
- ix) Define ecosystem.
- x) Distinguish between producers and consumers in ecosystem.
- xi) State the geographical extension of Taiga biome.
- xii) Why is tropical rain forest biome highly dense?
- xiii) What is bio shield?
- xiv) What is the main objective of a national park?
- xv) What are the main objectives of the MAB?

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

- i) Evaluate the role of humans in soil degradation.
- ii) State the characteristics of Podzol soil.
- iii) Bring out the major factors of land capability.
- iv) State the concept of energy pyramid with a diagram.
- v) Identify the role of bio-geo-chemical cycle in biosphere.
- vi) What are the causes of biodiversity conservation?

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

- i) Discuss the major factors of soil formation.
- ii) Give the concept of soil pH with a special reference to its significance in agriculture.
- iii) Briefly explain the structure and function of ecosystem with necessary illustrations.
- iv) Illustrate with diagrams the mechanisms of Nitrogen cycle and state the significance of the cycle.
