

U.G. 6th Semester Examination - 2023

## 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 followings:  $2 \times 10 = 20$

- i) What is soil profile?
- ii) What is loamy soil?
- iii) What is wilting point of soil?
- iv) Define ecotone.
- v) What is biogeochemical cycle?
- vi) Distinguish between food chain and food web.
- vii) Differentiate energy flow from nutrient cycle.
- viii) Define ecosystem.

[Turn Over]

- ix) Define ecology.
- x) What is meant by land capability?
- xi) State the geographical location of temperate grassland.
- xii) Why are green plants significant in carbon cycle?
- xiii) What are the causes of deforestation?
- xiv) What is biosphere reserve?
- xv) What is the importance of social forestry?

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

- i) State the characteristics of chernozem soil.
- ii) Classify and discuss soil structure.
- iii) Give a short note on genetic principles of soil classification.
- iv) Illustrate the concept of trophic structure.
- v) Highlight the major types of biome on a world map.
- vi) Mention the characteristics of nitrogen cycle.

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

- i) Write a short note on causes, consequences and management of soil erosion.  $2 + 2 + 6 = 10$

- ii) Discuss soil orders with their major characteristics according to USDA soil taxonomy. 10
- iii) Write a short note on Taiga biome with necessary illustrations. 10
- iv) Discuss the causes, consequences and management of biodiversity loss.

2+2+6=10

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