

**U.G. 6th Semester Examination - 2022**

**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** questions of the following:

2×10=20

- i) What is Chernozem soil?
- ii) Define soil structure.
- iii) Define soil pH.
- iv) What is soil moisture?
- v) What is ecotone?
- vi) Who are detritivores?
- vii) What is biomass?

viii) Define food chain.

ix) What is meant by energy pyramid?

x) State the location of Savanna.

xi) Why is tropical rain forest biome highly dense?

xii) What is meant by nitrogen fixation?

xiii) Define biodiversity.

xiv) What is national park?

xv) What is MAB?

2. Answer any **four** questions of the following:

5×4=20

- i) Mention the significance of NPK in soil.
- ii) Highlight the causes of soil erosion in the hilly region.
- iii) Give the concept of ecosystem with a necessary diagram.
- iv) Illustrate the concept of trophic structure.
- v) Mention the consequences of deforestation.
- vi) State the reasons of biodiversity loss.

3. Answer any **two** questions of the following:

$$10 \times 2 = 20$$

- i) Give a detailed account on the formation and characteristics of lateritic soil profile.

$$5 + 5 = 10$$

- ii) Discuss soil texture and its significance.

$$8 + 2 = 10$$

- iii) Explain the structure and significance of nitrogen cycle with necessary illustrations.

$$7 + 3 = 10$$

- iv) Bring out the controlling factors and types of biodiversity.

$$7 + 3 = 10$$

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