

PG/Geog/3rd Sem/21 (CBCS)

2021

GEOGRAPHY

Paper Code : GEOG-301

[Soil and Biogeography]

(CBCS)

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Answer any *four* questions taking *one* from each unit.

Unit - 1

(SOIL FORMATION AND PROPERTIES)

1. What is CEC ? How does it influence soil fertility ? Explain the role of climate and parent materials on soil formation. 1+3+6
2. Define soil profile. What are the services of soil? Discuss physical soil properties in light of their importance on soil productivity. 1+3+6

Unit - 2

(SOIL TAXONOMY AND CONSERVATION)

3. What is meant by soil degradation? Briefly analyze the effects of soil degradation. Make an account of the possible measures to control soil degradation. 1+3+6
4. Differentiate between soil fertility and productivity. What is meant by soil amelioration? Describe briefly the amelioration techniques for saline soil. 3+1+6

Unit - 3

(CONCEPTS IN BIOGEOGRAPHY)

5. Define ecosystem. Write about the structure and function of the ecosystem. Give a detail account of the features of the tropical forest biome. 1+3+6
6. Define SERE. Differentiate between habitat and Niche. Write about the phases of ecological succession. 1+3+6

Unit - 4

(PLANT GEOGRAPHY)

7. What is meant by saturation deficit? Write a short note on the limnetic zone of the freshwater ecosystem. Discuss the role of light and temperature on the growth of plants. 1+3+6
 8. What is Facultative heliophyte? Classify the biome based on climate and vegetation. Give a brief account on hot desert ecosystem. 1+3+6
-