



COOCH BEHAR PANCHANAN BARMA UNIVERSITY
B.A. Honours 3rd Semester Examinations, 2023

GEOGRAPHY

SOIL GEOGRAPHY AND BIOGEOGRAPHY

CORE-6

Time Allotted: 2 Hours

Full Marks: 40

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

SECTION-I

Answer any one question from the following

15×1 = 15

1. Elucidate the process of soil formation in Humid Temperate Region and describe the salient features of the soils formed there. What do you mean by gleization? 5+8+2
2. Discuss the importance of soil reaction. Mention the factors controlling soil reaction. 5+10
3. Give an account of the characteristics of Tropical Savannah Forest Biome with special reference to the location, climatic conditions, floral and faunal diversities. 15

SECTION-II

Answer any one question from the following

10×1 = 10

4. Discuss the factors affecting Soil Formation. 10
5. What do you mean by 'Trophic Structure'? Explain the energy flow in ecosystem with suitable sketches. 3+7
6. What is Ecological Succession? Discuss the process of Ecological Succession with examples. 4+6

SECTION-III

Answer any one question from the following

5×1 = 5

7. Discuss the features of Azonal soils with example. 5
8. What is meant by Amelioration? 5
9. What is Pyramid of Numbers? 5

SECTION-IV

10. Answer any *ten* questions from the following:

1×10 = 10

- (a) Name one basic process of soil formation.
- (b) In which climatic regime Chernozem soils are found?
- (c) What is Raw Humus?
- (d) What is 'E Horizon'?
- (e) In which layer hard pan or concretions can be found?
- (f) What is the diameter of the clay separates according to the USDA system?
- (g) What does the word 'Laterite' means?
- (h) Give an example of intra-zonal soil.
- (i) Who are producers in the ecosystem?
- (j) Name two endangered animals.
- (k) What is NPP?
- (l) In which biotic region epiphytes are found?
- (m) What is meant by Lentic ecosystem?
- (n) What is meant by ecotone?
- (o) Name two animals found in Tundra biome.

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