

QP Code: 23/PT/15/IIB

POST-GRADUATE COURSE

Term End Examination — June, 2023/December, 2023

GEOGRAPHY

Paper-IIB : SOIL & BIOGEOGRAPHY

Time : 2 hours]

[Full Marks : 50

Weightage of Marks : 80%

Special credit will be given for precise and correct answer. Marks will be deducted for spelling mistakes, untidiness and illegible handwriting. The figures in the margin indicate full marks.

Section - A

Answer any *three* questions :

10 × 3 = 30

1. Illustrate catena-climate relationship of tropical Savannah. Briefly state the process of Laterization. 5 + 5
2. Explain the causes and consequences of soil erosion. 5 + 5
3. Analyse the role of soil nutrients and organisms in determining soil fertility. 10
4. Briefly discuss the concept of climax and succession. Describe the basic process of plant succession. 4 + 6
5. Explain the means and barriers of global dispersal of animals. 5 + 5
6. Enumerate the controlling factors of geographic distribution of biodiversity. Classify biodiversity. 7 + 3

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[Turn over

Section - B

7. Answer any *five* questions : 4 × 5 = 20

- a) Distinguish between *In-situ* and *Ex-situ* conservation of biodiversity.
 - b) Briefly discuss about the Chipko movement.
 - c) Classify plants on the basis of their requirement of heat.
 - d) Differentiate between social forestry and agroforestry.
 - e) Briefly mention some important features of heliophytes.
 - f) Classify ecology on the basis of taxonomic approaches.
 - g) Briefly state about humification.
 - h) Briefly discuss about 'Duricrust'.
 - i) Briefly state the types of soil erosion.
 - j) State the difference between pedalfer and pedocal groups of soils.
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