

QP Code: 22/PT/15/IIB

POST-GRADUATE COURSE

Term End Examination — June, 2022/December, 2022

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.

Use of scientific calculator is strictly prohibited.

Section - A

Answer any *three* questions :

10 × 3 = 30

1. Define soil catena. Discuss with suitable illustrations the processes of podzolisation and calcification. 10
2. What is soil nutrient ? Describe the importance of Nitrogen, Phosphorous and Potassium in contributing nutrients to the soil. 10
3. Briefly discuss on the necessity and methods of soil conservation. 10
4. Enumerate the habitat factors responsible for plant growth. Analyse the role of any one of them. 4 + 6
5. Bring out the salient features of Temperate Broadleaf Deciduous Forest with reference to the structure and growth forms. 10
6. What is agroforestry ? Elucidate the objectives and mission in relation to social forestry. 2 + 8

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Section - B

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

- a) Differentiate pedon from polypedon.
 - b) What are the functions of soil organisms ?
 - c) How does *community forestry* differ from *extension forestry* ?
 - d) Explain the essentials of Forest Management.
 - e) Discuss briefly the *Polyclimax theory* of *Climax* as put forward by Tansley.
 - f) Briefly discuss any four types of *succession*.
 - g) Identify the *means* and *barriers* of animal migration.
 - h) What is the difference between *azonal* soil and *intrazonal* soil ?
 - i) Distinguish between *Eluviation* and *Illuviation*.
 - j) What is *photoperiodism* ? What is its effect on flowering plants ?
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