

Geography (P.G.)

[CBCS]

M.Sc. First Semester End Examination-2023

(Regular & Supplementary Paper)

PAPER-103

Full Marks: 40

Time: 02 Hrs

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Unit: 5

[Soil Geography]

Full Marks 20

Group A

Answer any one question of the following: 1x8=8

- 1) Explain the effect of soil organic carbon and micro-organism on soil fertility and productivity
- 2) Explain the principles of the USDA Soil Classification system.

Group B

Answer any two questions of the following: 2x4= 8

- 3) Discuss the importance of soil organic matter in agricultural ecosystems.
- 4) Briefly describe the major factors and consequences of soil degradation.

(2)

- 5) Examine the influence of parent materials on the formation of various soil characteristics.
- 6) Illustrate the Podzol soil profile.

Group C

Answer any two questions of the following: 2x2= 4

- 7) What is USLE?
- 8) What is wilting point?
- 9) What is trace element in soil?
- 10) What do you mean by soil health?

Unit: 6

[Oceanography]

Full Marks 20

Group A

Answer any one question of the following: 1x8=8

- 1) Explain the nature and mechanism of dispersal of animals in different geological time scale.
- 2) Explain the role of sanctuaries for the management of wildlife in the country like India.

Group B

Answer any two questions of the following: 2x4= 8

- 3) Write a short note on "Bird Sanctuaries in India."
- 4) Explain the basic principles of ecology.

(3)

- 5) Explain how energy flow model of Lindeman supports the first law of Thermodynamics?
- 6) What are the recent threats to forests in India?

Group C

Answer any two questions of the following: 2x2= 4

- 7) What do you mean by taxonomy?
 - 8) Distinguish between afforestation and reforestation.
 - 9) What is "Buffer zone"?
 - 10) What is "Red Data Book"?
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