WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 5th Semester Examination, 2021-22

GEOADSE01T-GEOGRAPHY (DSE1/2)

SOIL AND BIOGEOGRAPHY

Time Allotted: 2 Hours   Full Marks: 50

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

CATEGORY-A

Answer any *two* questions from the following (**Within 600 words each**)   10×2 = 20

1. Analyse the importance of soil structure and texture on plant growth. Distinguish between capillary water and gravitational water.   6+4

2. What is azonal soil? Discuss the principle of soil classification as proposed by the USDA.   2+8

3. What measures have been taken by Government of India for conserving biodiversity? State the role of 'Man and Biosphere program' in this context.   7+3

CATEGORY-B

Answer any *four* questions from the following (**Within 150 words each**)   5×4 = 20

4. Briefly discuss about soil erosion processes and their impact on crop production.

5. Why Chernozem is called incompletely leached soil?

6. How much more acidic is pH3 than pH5? Explain why.

7. Why is Tropical rainforest rich in biodiversity?

8. Distinguished between nitrification and denitrification.

9. What are the sources of soil organic matter? Mention its significance.

10. Explain the stages of the succession of plants.

CATEGORY-C

Answer any *five* questions from the following (**Within 50 words each**)   2×5 = 10

11. How does columnar soil structure form?

12. What is truncated profile?

13. What is the key difference between savanna and prairie?

14. What is a Sanctuary?

15. What is the significance of a Biosphere Reserve?

16. What is meant by climax vegetation?

17. What is Species Diversity?

18. State the role of humic acid in soil ped.

19. What is ecotone?

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within* 1 *hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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