2023

5th Semester Examination BOTANY (Honours)

Paper: DSE 1-T

[CBCS]

Full Marks: 40

Time: Two Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

[Natural Resource Management]

Group - A

Answer any *five* of the following questions: $2 \times 5 = 10$

- 1. What is horticulture?
- 2. Write the full form of NTFP.
- 3. What is resource accounting?
- 4. What is aquifers?
- 5. Write the names of two major Hot-Spots in India.
- 6. What is IPR?
- 7. Name two threatened plant species of West Bengal.
- 8. What is Silviculture?

P.T.O.

Group - B

Answer any	tour of	the tol	Owing	questions "	5×4=70
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9. What is wetland? Write the characteristics of an ideal wetland. Why wetlands are called "nature's kidney"?

1+2+2

- Classify different types of groundwater that you have studied. Mention which type of groundwater is absorbed by plants.
- 11. What are the minor forest products? How these minor forest products are gradually degraded today in the forest?

 1+4
- 12. What are solid wastes? Write different scientific procedures of solid waste management which are applied in urban areas.
- 13. What is soil degradation? Discuss major causes of soil degradation. 1+4
- 14. Write a note on carbon footprint.

5

Group - C

Answer any *one* of the following questions: $10 \times 1 = 10$

- 15. What are renewable and non-renewable sources of energy? Discuss about the national and international efforts of sustainable utilization, management and conservation of these resources.

 3+7
- Mention the major causes of biodiversity loss. Discuss different management strategies to protect biodiversity.

4+6

OR

[Biostatistics]

Group - A

Answer any *five* of the following questions: $2 \times 5 = 10$

- 1. Mention two basic principles of statistics.
- 2. Define primary and secondary data with suitable examples.
- 3. How is the arithmatic mean for grouped and ungrouped data calculated?
- 4. How is standard deviation calculated?
- 5. Explain the characteristic features of normal distribution with suitable illustration.
- 6. What is the use of t-test?
- 7. What is co-efficient of variation?
- 8. How do the slope and intercept in a regression analysis signify?

Group - B

Answer any *four* of the following questions: $5 \times 4 = 20$

9. Define mean, median and more. Illustrate a distribution in which all these central tendencies same. 3+2

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10.	What do you mean by dispersion or variability? If you measure the dispersion of a series of observation of a series of observations.	How will vations?
11.	What is standard error of mean? How is it call Why is measurement of standard deviation more a than mean deviation in Biostatistics?	culated? pplicable 1+2+2
12.	Write short notes on skewness and kurtosis.	5
13.	How is correlation related to regression.	5
14.	Illustrate 'Null hypothesis'.	5
	Group - C	
	Answer any one of the following questions:	10×1=10
15	. Illustrate Chi-square test explaing the significance of freedom and probability level.	of degree 10

16. Perform Chi-square test for the following problem:

Round/Yellow	Round/Green	Wrinkled/Yellow	Wrinkled/Green	
317	109	102	32	

Test the goodness of fit of it. Comment on the inheritance pattern of it.