

M. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2025**SEMESTER 3 : BOTANY****COURSE : 24P3BOTT10 : BIOSTATISTICS AND RESEARCH METHODOLOGY***(For Regular - 2024 Admission)*

Time : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

1. What are the advantages of participating in the academic gatherings? (U)
 2. Explain correlation co-efficient. Add a note on its usage. (U)
 3. Write a note on ISO standards for safety. (U)
 4. Differentiate Universal decimal system and Dewey decimal system. (An)
 5. How do you nullify the experimental bias? (U)
 6. What is a review article? Give its significance in a research. (R)
 7. Define ISO standard for safety. (U)
 8. Explain the uses of Chi-square test. (U)
 9. Explain the contents of introduction in a research proposal. (U)
 10. How do you formulate a research problem? (An)
- (1 x 8 = 8)**

PART B**Answer any 6 questions****Weights: 2**

11. What are the types of random design in biological experiments? Explain the advantages and disadvantages of each designs. (An)
 12. Explain deductive and inductive method of research process. Explain significances of each method. (U)
 13. Explain different types of hypothesis and describe how would you incorporate these hypothesis in your research. (A)
 14. Explain parametric and non-parametric statistics. (U)
 15. Discuss the different methods of data collection. (An)
 16. Briefly discuss about how measures of dispersion complement measures of central tendency in data analysis. (An)
 17. Briefly Explain ANOVA. (U)
 18. Briefly describe the essential components of a dissertation. (U)
- (2 x 6 = 12)**

PART C**Answer any 2 questions****Weights: 5**

19. Critically analyse and compare F-test and Chi-square test. Mention their respective applications in biostatistics. (An)
20. Explain different steps involved in research process and mention the significances of each step. (U)
21. Write an essay on the applications of probability statistics (U)

22. Explain measures of central tendency and dispersion. Discuss about their respective significances. (An)
- (5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
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Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;