

Name

25U625

Reg. No

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2025

SEMESTER 6 : BOTANY

COURSE : 19U6CRBOT10 : PERSPECTIVES OF SCIENCE, METHODOLOGY AND GENERAL INFORMATICS

(For Regular 2022 Admission and Supplementary 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. Write short key for underline and find.
2. What is the SI unit of pressure?
3. What is median?
4. Write Beer-Lambert's Law.
5. Write briefly about normal distribution.
6. What is the primary objective of Descriptive Research?
7. What is pH paper?
8. What is DNAi?

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Explain briefly about Science Direct as academic search engine.
10. Differentiate between dependent and independent variables.
11. Differentiate primary and secondary research.
12. Write any two applications of agarose gel electrophoresis.
13. Differentiate inductive and deductive research.
14. Explain briefly about the role of scitable in education and research.
15. What are the differences between graph and table?
16. Differentiate *between* t -test and X^2 test.
17. Differentiate between standard error and standard deviation.
18. What are the uses of t -test?

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

19. Comment on principles of experimental design.
20. Explain the rules of graphical representation of data.
21. What are the applications of MS word?
22. Discuss the use of PAGE as a separation method.
23. Explain briefly how information technology influences teaching and learning.
24. Discuss the different types of scientific literature.

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

25. Explain the contributions of Louis Pasteur.
26. Write an essay on how to make a good presentation using MS powerpoint. Mention the applications of MS powerpoint.
27. Explain the principle, types and applications of chromatography.
28. Write an essay on various sampling methods involved in biostatistics.

(10 x 2 = 20)