

Reg. No

Name

26U626

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2026

SEMESTER 6 : BOTANY

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

(For Regular 2023 Admission and Supplementary 2022/ 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. What is snowball sampling?
2. What is inductive research?
3. Define treatment in an experiment.
4. What is systematic sampling?
5. What is PAGE?
6. Write short key for copy and save in MS word.
7. Give an example of a buffer.
8. What is Scitable?

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Differentiate between mean and mode.
10. Explain the functions of INSDOC.
11. Write any two applications of colorimeter.
12. Differentiate between RAM and ROM.
13. Differentiate normal and binomial distribution of data.
14. Differentiate probability and non-probability sampling.
15. Differentiate between hypothesis and theory.
16. Differentiate between qualitative and quantitative research.
17. Explain briefly about the role of DNAi in academics.
18. Explain when to use X^2 test.

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

19. Explain the role of Science Direct and INFLIBNET as academic search engines that helps education and research.
20. Explain the Thin layer chromatography.
21. Differentiate between null and alternative hypothesis.
22. Point out five major laboratory etiquettes.
23. Explain the steps in preparing various types of graphs using MS excel.
24. Explain how to calculate t -test.

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

25. Write an essay on how to use MS excel for data management and analysis. Mention the applications of MS excel.
26. Discuss the principle and application of electrophoresis.
27. Write an essay on various graphical representation of data and their respective uses.
28. Explain the contributions of Louis Pasteur.

(10 x 2 = 20)