

D4BBT2201

Reg.No.....

Name:

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024

(Regular/Improvement/Supplementary)

BOTANY

GBOT4B04T: RESEARCH METHODOLOGY, REPRODUCTIVE BOTANY &

PALYNOLOGY

Time:2Hours

MaximumMarks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20Marks)

1. What is a buffer? What is its importance
2. Which are the various apertural morphoforms of pollen grains?
3. State how standard deviation is superior than mean deviation.
4. Give the importance of e-Pathsala.
5. What is an ogive? State its importance.
6. What are the peculiarities of the APA style of citation?
7. Differentiate between molarity and normality.
8. Which are the various barriers in fertilization?
9. Differentiate between Null and Alternate hypotheses.
10. Give the significance of spectrophotometry.
11. What is megasporogenesis?
12. What is molecular sieving? What are its applications?

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30Marks)

13. What is central tendency? What are its different types?
14. Explain the various types of centrifuges and their applications.
15. Give brief notes on Google Scholar, Sodh Ganga, NCBI and Infilbnet.
16. Describe the various types of embryo sac development.
17. What is Chromatography? Discuss the different types of Chromatographic techniques.
18. What is Palynology? Explain the role of pollen grains in taxonomical studies.
19. What is Chi-Square test? How is it calculated? What are its applications?

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. Explain the important steps involved in scientific methods. How it forms the structure of a research report?
21. Describe the various measures of dispersion and their applications.

(1 x 10 = 10 Marks)