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(Pages : 2)

Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
APRIL 2023**

Botany

BOT 4B 04—METHODOLOGY AND PERSPECTIVES IN PLANT SCIENCE

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A***Answer all questions, each question carries 2 marks.**Ceiling : 20 marks.*

1. What is control in an experiment ? What is its significance ?
2. List out the importance and limitations of Biostatistics.
3. Explain any *one* style of citation of references.
4. What is a buffer ? Why is it important ?
5. What is the principle of ion exchange chromatography ?
6. What is vital staining ? Cite an example.
7. Differentiate between killing and fixing.
8. What is the use of a cold centrifuge ?
9. Enlist the use of INFLIBNET in research.
10. What is molecular sieving ?
11. What are coal tar dyes ?
12. Differentiate between mean and median.

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**Section B**

*Answer all questions, each question carries 5 marks.  
Ceiling : 30 marks.*

13. Write a note on the recent methods of presentation of research findings.
14. Explain the principle, working and applications of spectrophotometry.
15. What are buffers ? Explain its preparation and list the uses of buffers.
16. Discuss the various methods of data collection.
17. What is the significance of statistical tools in data interpretation ?
18. Expand and explain the composition and uses of CRAF.
19. Describe the methods of dehydration and infiltration.

**Section C**

*Answer any one question, The question carries 10 marks.*

20. Discuss the different types of chromatographic techniques used in research
21. What is the structure of a research report ? Explain how the internet facility can aid the proc research.

(1 × 10 = 10 m)