B.Sc. DEGREE EXAMINATION,NOVEMBER 2018
III Year V Semester
Core Major Paper-XI
BIO INSTRUMENTATION, BIO INFORMATICS AND BIO STATISTICS

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Microscopy.
2. TEM.
3. Microtomy.
4. Fixatives, give an example.
5. Chromatography.
6. Centrifuge.
7. Swiss prot.
8. Sequence analysis.
9. Median.
10. Data Collection.
11. Agroinformatics.
12. T-Test.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Give a schematic representation of the working light microscope.
14. Explain the preparation of wax block.
15. Describe the application of paper chromatography.
16. "Bioinformatics is the brain of biotechnology"- justify this statement.
17. Differentiate mean and standard deviation.
18. Role of phylogenomics in Bioinformatics.
19. Outline the role of bioinformatics in the agricultural sciences.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain Scanning electron microscopy with necessary diagrams.
21. Discuss dehydration and staining methods.
22. Write in detail the various steps in Gas Chromatography and its uses.
23. Describe in detail genomics and its types.
24. Give detailed account on measures of central tendency.

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