B.Sc. DEGREE EXAMINATION,NOVEMBER 2019
III Year V Semester
Bioinstrumentation, Bioinformatics and Biostatistics

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

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

Answer any **TEN** questions

1. Resolving Power.
2. Electron gun.
3. FAA
4. Paraffin wax
5. Rf value
6. RPM
7. Bioinformatics
8. NCBI
9. Mode
10. Mean
11. Microtome
12. Absorbance and Transmission.

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

Answer any **FIVE** questions

13. Explain the basic principles and function of light microscope.
14. Write the procedure for the preparation of whole mount and maceration.
15. Describe the types of centrifuges.
16. Give an account on DNA sequence analysis.
17. Explain the steps followed in Chi-square test.
18. Write note on biological staining methods.
19. Explain the working principle of pH meter.

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

Answer any **THREE** questions

20. With the help of a ray diagram, explain the working principle and applications of TEM.
21. What are the steps involved in the permanent slide preparation?
22. Explain in detail the working principle and application of Gas Chromatography.
23. Narrate the basics of proteomics and genomics.
24. Write an account on measures of dispersion.

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