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2316

Class – M.Sc. IV Sem. (Botany) Subject – Analytical Techniques Paper – BOT 624

Time Allowed: 3 Hours

Maximum Marks: 50

30

Section A

First question be a eight parts. Each part is compulsory. Each part carries 1 mark.

- 1.(a) Define SEM.
 - (b) Define Staining.
 - (c) What is fixation?
 - (d) What are applications of electrofocussing?
 - (e) What is principle of gas chromatography?
 - (f) What is NMR spectroscopy?
 - (g) What is buoyant density ultracentrifugation?
 - (h) What is X- difraction?

 $\times 8 = 8$

Section-B

Attempt any seven out of 10. Each carries 7 marks

- Discuss Instrumentation & applications of ESR spectroscopy.
- 3. Describe flow cytometry.
- 4. What is South Western Blotting?
- 5. Discuss plasma emission spectroscopy.
- 6. Describe fluorescence Spectroscopy.

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- 7. Discuss sequencing of nucleic acids.
- 8. Describe cytophotometry.
- Elaborate phase contrast Microscopy.

 $(3 \times 7 = 21)$

Section-C

Attempt any 3 out of 5 . Each carries 7 marks.

- 10. Describe Cot curves & hybridization.
- 11. Describe Ion exchange chromatography.
- 12. Discuss TLC.
- 13. Elaborate AAS.
- 14. Describe fluorescence microscopy.

 $(7 \times 3 = 21)$

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