

19. (a) Point out the principle of Ion exchange chromatography.

Or

- (b) Write an essay about 2D gel electrophoresis.

20. (a) Write short notes on about plasmids.

Or

- (b) Describe colony hybridization.

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

21. Point out the various steps of specimen preparation and in freezing microtome.
22. Describe the principle and application of AAS.
23. Explain the principle and application of TLC.
24. Briefly explain the principle of pulse field gel electrophoresis
25. Describe the working principle and applications of PCR.

S.No. 6933

P 22 MBE 1 A

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Microbiology — Elective

BIOLOGICAL TECHNIQUES

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions.

- I. (A) Multiple choice questions: (5 × 1 = 5)
1. _____ used as fixative in electron microscope
- (a) Glutaraldehyde (b) Osmium Tetroxide
- (c) Gold (d) Both (a) and (b)
2. G.M counter used for counting _____ samples
- (a) Radioactive (b) Liquid
- (c) Solid (d) All the above

