

(20518)

Roll No.

B.Sc.(Microbio.)-I

3491

B. Sc. (Microbiology) Examination, May 2018

Analytical Techniques

(B-108)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any Five questions. All questions carry equal marks.

1. What is Autoradiography ? Discuss its main principles and applications. 10

2. Comment on the following : 2½×4

- (i) Phases in Chromatography
- (ii) TEMED
- (iii) SDS
- (iv) Radioisotopes.

3. Write about the principle of TLC. Why TLC is superior to paper chromatography ? 10

(2)

4. Define any two of the following : 5+5

- (a) Nucleic acid staining
- (b) Band patterns
- (c) Cell sorting.

5. What is SDS-PAGE ? Write its principles and applications along with its limitations. 10

6. Write short notes on the following : 5+5

- (a) Chromosomal technique
- (b) Tracer technique.

7. Discuss the principles and applications of Immunoelectrophoresis. Also discuss its role in Medical Microbiology. 10

8. What is fermenter ? Discuss about its various types with the help of suitable diagrams. 10

9. Discuss the principle and applications of ion-exchange chromatography used in the separation of biomolecules. 10

3491

10. Define Chromatography. Also discuss its various types with special reference to gel filtration chromatography. 10

<https://www.ccsustudy.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से