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Roll No.

B.Sc. (Micro)

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B.Sc. (Microbiology) Examination, May 2017

Analytical Techniques

(B-108)

Time : Three Hours]

[Maximum Marks : 50

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

1. Define Chromatography. Also discuss its principle and different types. 10
2. Describe in detail the paper chromatography technique for the separation of different plant pigments. 10

P.T.O.

3. Write short notes on:

5+5

(a) Karyotyping

(b) Cell growth determination.

State the underlying principle of electrophoresis. Also discuss about SDS-PAGE. 10

Describe the principle and application of immunoelectrophoresis. 10

6. Comment on the following (any two):

(a) TLC and its uses

5+5

(b) Bioindicator

What is a bioindicator? Give an example.

What is a radioisotope? Draw a labelled diagram of a radioisotope and its different parts in detail. 10

Write a note on cell fractionation.

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9. Explain the following: 5+5

(a) Types of fermenters

(b) Equipments and supporting media of electrophoresis.

10. Comments briefly on any two: 5+5

(a) Auto-radiography

(b) Applications of radioisotope tracer techniques

(c) Down stream processing.