

1057
B.A./B.Sc. (General) Fourth Semester
Biochemistry
Paper – A: Advanced Bio-Chemical Techniques

Time allowed: 3 Hours

Max. Marks: 45

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Write short notes on the following:-

- a) Cryopreservation (3)
- b) Plant cell culture (2)
- c) Homogenization (2)
- d) Membrane filtration (2)

UNIT – I

II. Write applications of the following techniques to biological systems:-

- a) Sonication
- b) Cell counting (4,5)

III. Write note on the following:-

- a) Surface tension
- b) Animal tissues culture (5,4)

UNIT – II

IV. Write Principle and applications of the Fluorescence immunoassays technique. (9)

V. Write Principle and applications of the FACS. (9)

UNIT – III

VI. Discuss following techniques:-

- a) Autoradiography
- b) Radioimmuno assay (5,4)

VII. Write note on the following:-

- a) GM Counter
- b) Radioisotopes (5,4)

UNIT – IV

VIII. Discuss the applications of Atomic spectrometry. (9)

IX. Discuss the applications of NMR. (9)

x-x-x