

M.SC.(Zoology) (CBCS Pattern) Third Semester
PSCZOOT10-5 - Special Group : Cell Biology(Paper-I) Paper-X

P. Pages : 1

Time : Three Hours



GUG/W/18/11311

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answer with well labelled diagrams wherever necessary.

1. Give an account of cell separation by flow cytometry. 16

OR

Write notes on.

- a) Transmission electron microscopy.
- b) Types of centrifuges.

2. Describe the working and application of paper and thin layer chromatography. 16

OR

Write notes on.

- a) Mass spectroscopy.
- b) Tissue engineering.

3. Write a detail notes on designing and production of gene probes for recombinant DNA technology. 16

OR

Write notes on.

- a) DNA ligases.
- b) YAC and BAC vectors.

4. Write an essay on gene transformation and transfection methods for recombinant DNA. 16

OR

Write notes on.

- a) Invitro mutagenesis.
- b) Phage display techniques.

5. Attempt the following. 16
- a) X-Ray crystallography.
 - b) Gel filtration chromatography.
 - c) Restriction endonucleases.
 - d) Transgenics.
