

FACULTY OF SCIENCE

B.Sc. (CBCS) III-Year (VI-Semester) Regular & Backlog Examinations, June-2023

Biotechnology-VI (A)
(Animal Biotechnology)

Time: 3 Hours

Max Marks: 80

SECTION-A

(4x5=20 Marks)

Answer any Four questions from the following

1. Pluripotent Stem cells.
2. Artificial insemination.
3. Market assisted selection.
4. RFLP.
5. Xenograft model.
6. Transfection studies.

SECTION-B

(4x15=60 Marks)

Answer all the following questions

7. (a) What are the characteristic features of cell lines and the maintenance.
(OR)
(b) Mention the methods for separation and establishment of various cell lines.
8. (a) What is Animal Breeding? Describe its advantages and limitations.
(OR)
(b) What is IVF? How is embryo sexing done?
9. (a) What are molecular markers? Describe the various types of markers.
(OR)
(b) How do you identify and isolate the gene of interest?
10. (a) What are the different animal models used in research? Mention their significance.
(OR)
(b) Discuss the Generation of gene knock-out mouse model.