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Sl. No.

4

M.Sc. IV Semester Degree Examination, Sept./Oct. - 2024 BIOTECHNOLOGY

Animal Biotechnology (NEP)

Time: 3 Hours Maximum Marks: 70

Answer any five of the following questions with Question No.1 (Q1) compulsory, **Note** : (i) each question carries equal marks. Draw neat diagrams wherever necessary. (ii) 1. Give details on cell culture techniques. 8 (a) Elucidate about cell transformation and malignancy. 6 (b) 2. Write in detail about gene transformation. 9 (a) Explain about cell Synchronization. (b) 5 9 Illustrate about nuclear transfer and cell cloning. 3. (a) Give details on animal breeding and their potential applications. 5 4. (a) Explain about culture and maintenance of stem cells. 7 Describe on reconstitution of hematopoietic system. 7 (b)

(a) Elucidate the applications of animal biotechnology in animal improvement.
(b) Write in detail about applications of animal biotechnology in Medicine.
5

6. (a) Describe in detail about cell cycle analysis.(b) Write a note on IVF-ET6

7. (a) Explain in detail about differentiation and describe lineage differentiation. 9

(b) Explain about the cell therapy and mention its applications. 5

8. (a) Elucidate on artificial insemination.

(b) Describe the process of cell immortalization and transformation.

(c) Write about ethics in stem cells research.

