

(041240202/446221B)

M.Sc. DEGREE EXAMINATION, APRIL 2018

FOURTH SEMESTER

Branch - ZOOLOGY

Paper II — ANIMAL BIOTECHNOLOGY

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any FOUR of the following questions. Each question carries 5 marks.

(Marks : 4 × 5 marks = 20 marks)

1. Hemocytometer.
2. Serum free media.
3. Specialized cells.
4. Preservation of cell lines.
5. Biopharming.
6. Regenerative Medicine.
7. Indian Major Carps.
8. Apiculture.

PART - B

Answer FOUR of the following questions. Each question carries 12.5 marks.

(Marks : 4 × 12.5 marks = 50 marks)

9. (a) Define cell culture media. Discuss the components of media and their functions.

Or

- (b) Describe the history and development of animal cell-tissue culture and its applications.

10. (a) Explain the various techniques used in the cell disaggregation.

Or

- (b) Explain the scale up of animal cell culture and add note on the factors affecting the cell culture.

[P.T.O]

11. (a) What is transgenesis? Elaborate on the production of transgenic animals and applications.

Or

(b) Explain the types, isolation and applications of stem cells in the medicine.

12. (a) Give detailed account on the general principles of aquaculture and prosper aquaculture in India.

Or

(b) Describe the biotechnological application in the field of sericulture for the quality production.
