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**BTH 551**

**Fourth Semester M.Sc. Degree Examination, September/October 2022**  
**BIOTECHNOLOGY**  
**Animal Biotechnology**

Time : 3 Hours

Max. Marks : 70

PART – A

1. Write short notes on **any ten** of the following (**not exceeding 1 page each**). **(10×2=20)**
- a) RPMI – 1640.
  - b) Collagenase.
  - c) Cell line.
  - d) HAT medium.
  - e) Pluripotency.
  - f) Histotypic culture.
  - g) Sex specific markers.
  - h) Transgenic organism.
  - i) Cryopreservation of embryos.
  - j) IVF.
  - k) Vaccine.
  - l) Gene therapy.

PART – B

Write explanatory notes on **any five** of the following (**not exceeding 3 pages**). **(5×6=30)**

- 2. The equipments required for the animal cell culture.
- 3. Measurements of cell viability and cytotoxicity assays.
- 4. Cell separation techniques.

P.T.O.



5. Somatic cell fusion.
6. ART.
7. Plasmids.
8. Gene knockout.

**PART – C**

Write long answers on **any two** of the following (**not** exceeding **7** pages). **(2×10=20)**

9. Write an account on primary culture techniques.
  10. Give an account on stem cell culture and its applications in medicine.
  11. Describe the production of transgenic fishes.
  12. Discuss various methods of gene transfer.
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