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**GIET UNIVERSITY, GUNUPUR – 765022**  
M. Sc. (Third Semester) Examinations, December' 2020  
**BTPC 303 – Animal Biotechnology**  
**(Biotechnology)**

Time: 2 hrs

Maximum: 50 Marks

**(The figures in the right hand margin indicate marks.)**

- Q.1. Answer **ALL** the questions (2 x 10 = 20)
- What do you mean by primary cell culture?
  - Define organ culture.
  - What is established cell line?
  - Define *in vitro* fertilization
  - What is molecular pharming?
  - Cryopreservation
  - Which enzymes are necessary for tissue disintegration and digestion?
  - Name four animal cell culture media.
  - Explain Viral vectors
  - Write short note on Balanced salt solution

**PART – B (6 x 5 = 30 Marks)**

Answer ANY FIVE the questions

Marks

- Describe about the various equipments and instruments necessary for animal cell culture and add a note on their significance. (6)
- Write short notes on (i) Cell senescence. (ii) Contact inhibition. (6)
- Describe in detail about the methods and techniques of animal cell culture with suitable examples. (6)
- Describe the process of organ culture in detail and add a note on its significance. (6)
- Explain in detail how you measure the viability of cells in a cell culture. (6)
- Explain (i) Cell transformation (ii) Maintenance of cells in culture. (6)
- Describe in detail about the various applications of animal cell culture. (6)
- What is vaccine? Write a note on animal cell culture based vaccines. (6)

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