

M.Sc. (Biotechnology) (CBCS Pattern) Semester-III
PSBIT109 - Paper-I : Animal Biotechnology

P. Pages : 1

Time : Three Hours



GUG/W/24/11236

Max. Marks : 80

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1. Discuss in details contact inhibition, anchorage dependence and cell-cell communication. **16**

OR

- a) What is culture media? Explain in details synthetic and balanced salt solutions. **8**
- b) Discuss in details chemical function of different constituents of culture media. **8**

2. Discuss maintenance and management of cell line culture in details. **16**

OR

- a) Discuss in details explant and suspension culture. **8**
- b) Explain methods of separation of cell types. **8**

3. Discuss tissue engineering of animal cell culture. **16**

OR

- a) Explain cell transformation and cell cloning. **8**
- b) Discuss stem cell culture with their application. **8**

4. Discuss in details In Vitro Fertilization of animal tissue culture. **16**

OR

- a) Discuss in details embryo transfer with respect to multiple ovulation. **8**
- b) Discuss in details application of animal cell culture with respect to xenotransplantation. **8**

5. Write a short notes on:

- a) Natural media. **4**
- b) Three dimensional culture. **4**
- c) Role of cytochrome-C. **4**
- d) Cytotoxicity. **4**
