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(20721) Roll No. ....  
B.Sc. (Biotech.)-III Year

## NS-3474 (CV-II)

**B.Sc. (Biotechnology) Examination,**

**June-2021**

**Animal Biotechnology**

**(B-302)**

**B.Sc. (Bio-Tech.)**

*Time : 1½ Hours ] [Maximum Marks : 75*

**Note :** Attempt any **two** questions. **All**

questions carry equal marks.

1. Discuss the laboratory facilities for tissue culture in animals, including the facilities of space and equipments.

2. What is antisense gene therapy? Describe the barriers related to gene delivery.
3. Discuss the various causes of infertility in human couples. Explain how far can it be dealt with through **in vitro** fertilization and embryo transfer.
4. Write notes on the followings :
  - (a) Cryopreservation
  - (b) Forensic medicines.
5. Write an essay on Biotechnology in fertility control.
6. Explain the technique of embryo transfer in cattle step by step.
7. Write short notes on the followings :
  - (a) Split embryos.
  - (b) Neurological disorders and gene therapy.
  - (c) Adenoviruses.

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8. Describe the methods of Transgenesis with precautions at each step.
9. Explain the role of Biotechnology in disease diagnosis.
10. Write short notes on the followings :
  - (a) Types of primary culture
  - (b) Epigenetic inheritance
  - (c) Artificial Tissues
  - (d) Stem Cells
  - (e) EGF and FGF

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