

**C296**

Total Pages : 2

Roll No. ....

## **MZO-603**

### **Animal Biotechnology**

M.Sc. Zoology (MSCZO-20)

3rd Semester Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 40**

**Note :** This paper is of Forty (40) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Ten (10) marks each. Learners are required to answer any Two (02) questions only.

(2×10=20)

1. How are recombinants and transgenic organisms generated? What is the aim of transgenesis?
2. Write in detail about the stages of cryopreservation.

3. Explain in detail the preparation of primary culture.
4. Define various properties of embryonic stem cells.
5. Write in detail on the control, testing and storage of media.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Five (05) marks each. Learners are required to answer any Four (04) questions only. (4×5=20)

1. Write a note on application of cell culture.
2. Explain maintenance of cell lines.
3. What is the role of serum in cell culture?
4. Write a note on working of laminar flow.
5. Explain the method employed to generate the first transgenic animal Dolly?
6. Write in brief about Concatamer and chimera.
7. Write a short note on Rb1 and p53.
8. Elucidate cytoplasmic oncoproteins.