

P-233

Total Pages : 3

Roll No.

MZO-603

Animal Biotechnology

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2023 (June)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) 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 Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. Write detailed account on transformation of malignancy.

2. How are recombinants and transgenic organism generated?
What is the aim of transgenesis?
3. Explain with diagrammatic representation homologous and non-homologous recombination.
4. Describe the process of in vitro fertilization and embryo transfer.
5. Explain in detail about the preparation of culture media.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. What are different sources of embryonic stem cell?
2. Write in detail on the control, testing and storage of media.
3. Role of serum in cell culture for attachment and spreading factors. Discuss.
4. Write in detail about the working of laminar flow.

5. Write short notes on the following:
 - (a) Connective tissue.
 - (b) Blood brain barrier.

 6. Explain the role of biotechnology is useful in health and disease.

 7. Explain the method employed to generate the first transgenic animal Dolly.

 8. Define various properties of embryonic stem cells.
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