

S-170

Total Pages : 3

Roll No.

MZO-603

Animal Biotechnology

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2022 (Dec.)

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. Discuss in detail about the organization of different types of muscles.

2. Write in detail about the nervous system and also discuss about the different cell types in the brain/CNS.
3. What is pluripotent stem cell? Explain the potential of different stem cell?
4. Describe various methods of cell Tissue culture.
5. Write a short note on :
 - (a) Pluripotency.
 - (b) Progenitor cell.
 - (c) Plasticity of HSCs.

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. Give cellular aspects of tumor cells?
2. Elucidate various method of gene transfer via sperm.
3. What is the role of serum in cell culture for attachment and spreading factors?

4. Write about the stages of cryopreservation.
 5. Write a short notes on the following :
 - (a) p53.
 - (b) Propagation of cell lines.
 6. Explain in detail on maintenance of cell lines.
 7. What are the methods employed to generate the first transgenic animal Dolly?
 8. Define various properties of embryonic stem cells.
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