

P-212

Total Pages : 3

Roll No.

MSCZO-507

Molecular Biology and Biotechnology

M.Sc. Zoology (MSCZO)

2nd Semester Examination, 2023 (June)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) 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 Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Explain different methods of eukaryotic replication with the help of suitable diagram.

2. What are transgenic animals? Explain developmental processes of sheep Dolly.
3. Elaborate the process of translation in detail.
4. Explain the process and applications of DNA fingerprinting along with suitable diagram.
5. What do you understand by RFLP? Explain its process and uses.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Describe different methods of DNA repair mechanisms.
2. What do you understand by Genetic code? Elaborate in detail.
3. Discuss cell culture process and its applications.
4. Explain different types of RNA with their functions.

5. Describe the process of Northern Blotting along with suitable diagram.
 6. Write a note on process and practices of gene therapy.
 7. Explain the method for developing a transgenic animal with the help of suitable diagram.
 8. Describe the process of development of recombinant DNA (rDNA).
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