

S-1075

Total Pages : 3

Roll No.

ZO-552

Animal Biotechnology

M.Sc. Zoology (MSCZO)

2nd Year Examination, 2022 (Dec.)

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 the techniques of Culture Media and cell culture?
2. Describe the Vitro Fertilization and Embryo Transfer.

3. Explain the Waste water treatment and waste water.
4. Describe the process of Landfill, Composting and Earth worm treatment under environmental Biotechnology.
5. Write a short note on :
 - (a) Tumor Cells.
 - (b) Degradation of Plastics.

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. Briefly describe the technique employed for the transfer of gene.
2. Describe the use of Polymerase chain reaction for disease diagnosis in aquaculture.
3. Write the scope and future of Biotechnology.
4. Explain the types of waste water treatments and its utilization.

5. Explain the Biosynthesis of L-Glutamic acid.
 6. Describe the course of plastic degradation.
 7. What are the advantage and limitation of composting?
 8. Explain the advantage of *Ex-situ* and *In-situ* bioremediation.
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