

S-171

Total Pages : 3

Roll No.

MZO-604

Applied 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. What is Agricultural Biotechnology? Describe is the Importance of Agriculture Biotechnology in Crop Improvement?

2. Discuss the role of biotechnology in aquaculture in detail.
3. Describe the medical applications of microbial biotechnology.
4. Explain Immobilized enzymes? Describe therapeutic enzymes with examples?
5. Write essay on environmentally important Microorganisms.

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. How can microbes be used to decrease the use of chemical fertilizers and pesticides?
2. What is the consequence of discharging larger volumes of sewage that is untreated into a river?
3. Explain the methods involved in production of glucose syrup?
4. What is bioremediation? Discuss its various types.

5. What is vermicompost? Which would be better in between "compost" and "vermicompost" for agricultural use?
 6. Comment on Plastics degradation by microbes.
 7. What is bioenergy? Discuss if bioenergy good for the environment?
 8. Discuss Bacterial growth curve.
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