

P-501

Total Pages : 3

Roll No.

EVS-507

Environmental Microbiology and Biotechnology

(MSCES-21)

Ind 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. What are different methods of gene cloning ?

2. What are GEO ? State in detail about their application for mankind.
3. How are protein biofertilizers prepared ? Describe how they are used for waste management.
4. Explain the mechanism of detoxification. How highly concentrated toxic pollutants are degraded ?
5. Describe important characteristics of protists and viruses. Summarise their effect on human health.

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. Differentiate between batch and continuous culture.
2. What are ethical issues associated with development of GEO ?
3. What are protein fertilizer ? How does solid waste is degraded ?

4. What are different methods of biodegradation of toxic pollutants ?
 5. What are nucleic acids ? Describe salient features of their structure.
 6. What are different regulatory measure policy and legislation for release of GEO in different countries ?
 7. Differentiate between eukaryotic and prokaryotic cell.
 8. Write short notes on :
 - (a) Chromosome.
 - (b) Plasmid.
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