

S-703

Total Pages : 3

Roll No.

EVS-507

Environmental Microbiology and Biotechnology

(MSCES-21)

2nd Semester 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.** What are Xenobiotic and Recalcitrant Compounds? Discuss their different type and sources.

2. Describe in detail the structure of Prokaryotic and eukaryotic cell with diagram.
3. What is recombinant DNA? Enlist its uses for human benefit.
4. Define:
 - (a) Gene.
 - (b) Plasmid.
 - (c) GEO.
 - (d) Bath Culture.
5. What is detoxification of pollutants? How does highly toxic pollutants are treated?

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. What is role of extracellular polymer in detoxification of pollutants?
2. What are health risks associated with solid waste?

3. What is MPN index and its relation with purity of drinking water?
 4. What are factors affecting toxicity in aquatic system?
 5. Describe different growth phases of microbial growth.
 6. Briefly describe Ecotoxicology in aquatic system.
 7. What is batch and continuous culture?
 8. State different application of GEO.
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