

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Bio Technology) (Sem.-4)
ENVIRONMENTAL BIOTECHNOLOGY

Subject Code : BTBT-408-18

M.Code : 77591

Date of Examination : 12-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. a) What are Sanitary Landfills?
b) Define Recalcitrance.
c) What are Trickling Filters?
d) Define Hybrid Reactors.
e) What are Xenobiotics?
f) What are Catalytic antibodies?
g) Define Bio-augmentation.
h) What are Biofertilizers?
i) What are Biofuels? Give examples.
j) What is Cometabolism and Biotransformation?

SECTION-B

2. Write a note on Sequential Batch reactors.
3. Explain factors affecting Biodegradation of Xenobiotics.
4. What are Degradative Plasmids? Discuss about Plasmid Borne metabolic activities.
5. Discuss bioremediation through Micropropagation.
6. Deliberate on ex - situ and in - situ conservation of Biodiversity.

SECTION-C

7. Elaborate on design and working of UASBR.
8. Deliberate on mechanism of Microbial Degradation of complex Hydrocarbons.
9. Write about Biofuels types, Microbial processes in production, applications, advantages and limitations.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.