

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech.(BT) (2012 to 2017 EL) (Sem.-7)**  
**ENVIRONMENTAL BIOTECHNOLOGY**  
Subject Code : BTBT-907  
M.Code : 71853

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION 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 has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students has to attempt any **TWO** questions.

**SECTION-A****1. Answer briefly :**

- a. Explain Xenobiotics.
- b. Define Solid Waste Management.
- c. What do you mean by *Insitu* waste management technology?
- d. What is meant by biotransformation?
- e. Define Mycorrhizae.
- f. Explain Biofertilizer.
- g. Define Anaerobic sludge.
- h. What do you mean by sustainable development?
- i. Define Catalytic antibodies.
- j. What do you mean by hot spot of biodiversity?

### SECTION-B

2. Give a brief account on minimal national standards of waste management.
3. Write a detailed note on microbial degradation of hydrocarbons.
4. Discuss advantages and disadvantages of biocatalyst.
5. Give detailed account on categories of threatened species.
6. Describe restoration of coal mines- a case study.

### SECTION-C

7. Discuss principles and design of advanced bioreactors used in waste disposal.
8. Describe in detail Ecosystem of biodiversity.
9. Discuss :
  - a. *Ex situ* conservation of biodiversity
  - b. Biofuel production

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