Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(BT) (2011 to 2017) (Sem.–2)

ENVIRONMENTAL BIOTECHNOLOGY

Subject Code : MSBT-106

M.Code : 15012

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 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

Q1. Describe briefly :

a) Environment

b) Trickling filter

c) Up flow anaerobic sludge blanket reactor

d) Oxidation ponds

e) Noise pollution

f) Xenobiotics

g) Degradative plasmids

h) Green house effect

i) Ozone depletion

j) Vermiculture

SECTION-B

Q2. What is air pollution? Describe its control through biotechnology.

Q3. Describe the microbiology of activated sludge process and anaerobic digestion.

Q4. Describe the microbiology of degradation of pesticides and surfactants.

Q5. What is Bioremediation? Describe the bioremediation of contaminated soil and waste land.

Q6. Describe the treatment schemes of distillary waste water.

SECTION-C

Q7. What is water pollution? Describe the sources of water pollution. Also highlight the measurement of water pollution.

Q8. What is acid rain? Describe its impact on the environment. Also highlight biotechnological approaches for its management.

Q9. What is environment pollution? Describe its types and methods of measurement. Also highlight the methodology of environment management.

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.