

No. of Printed Pages : 03

Roll No.

CC-221

M. Tech. EXAMINATION, May 2018

(Third Semester)

(Re-appear Only)

(BT)

BT601B

ADVANCED IN APPLIED BIOTECHNOLOGY

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-23/12)M-CC-221

P.T.O.

Unit I

1. How molecular breeding is helpful in crop improvement ? Describe the use of various techniques with examples. **15**
2. Write notes on the following : **7½+7½=15**
 - (a) Gene Pyramiding
 - (b) Chloroplast Genetic Engineering.

Unit II

3. How molecular diagnostic techniques are helpful in human genetic predisposition to diseases ? **15**
4. Write the mechanisms involved in : **7½+7½**
 - (a) Site specific drug delivery of molecules.
 - (b) Pharmacogenomics or customised drug designing.

Unit III

5. How will you explain the phenomenons of : **5+5+5=15**
 - (a) Ozone depletion
 - (b) Greenhouse effects
 - (c) Acid rains.

M-CC-221

2

6. How energy problems can be reduced by the applications of biological systems ? Explain any *two*. **15**

Unit IV

7. Flow diagrammatically represent the production procedural trains for production of : **7½+7½=15**
 - (a) Antibiotics
 - (b) Proteases.
8. How will you proceed for production of recombinant proteins using animal cell culture technology ? **15**

(3-23/13)M-CC-221

3

20