

M.Sc. (Botany)(with Credits)-Regular-Semester 2012 Sem III
MSc2323 / BOT11 - Paper-XI : Plant Biotechnology

P. Pages : 1

Time : Three Hours



GUG/S/18/3419

Max. Marks : 80

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- Notes : 1. All questions are compulsory and equal marks.
2. Illustrate your answer with suitable examples and diagrams.

1. What are cloning vectors? Write about different types and their properties. **16**

OR

Write on:

- a) Agrobacterium – the natural genetic engineer. **8**
b) Strategies for development of transgenics. **8**

2. What is bacterial transformation? Write about Griffith experiment and his conclusion. **16**

OR

Write on:

- a) DNA fingerprinting. **8**
b) Polymerase Chain Reaction. **8**

3. What is protoplast? Write about protoplast isolation and culture. **16**

OR

Write on:

- a) Applications of plant tissue culture. **8**
b) Salient achievements on crop biotechnology. **8**

4. What is bioinformatics? Write about history and applications of bioinformatics. **16**

OR

Write on:

- a) BLASTS **8**
b) RASMOL **8**

5. Write short notes on.

- a) DNA library. **4**
b) Protein profiling & its significance. **4**
c) Tissue culture media. **4**
d) PubMed. **4**
