Code No: R05312306 **R05** **Set No. 2**

III B.Tech I Semester Examinations,November 2010
PLANT BIOTECHNOLOGY
Bio-Technology

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

⋆ ⋆ ⋆ ⋆ ⋆

1. Give an account of gene transfer methods in plants for the production of transgenic plants. [16]
2. Write short notes on the following: [4 × 4]
   (a) Chaperons
   (b) Caro Rx
   (c) Trypzean
   (d) Cederase.
3. Discuss few approaches to improve abiotic stress tolerance in crop plants by molecular genetic methodologies. [16]
4. Write in detail how herbicide resistant plants can be produced for Triazines and and Phosphinothricine. [16]
5. Write in detail about the method of meristem culture for production of virus free plants. [16]
6. How precursor feeding can be useful for yield enhancement of secondary metabolites. [16]
7. Write short notes on the following: [4 × 4]
   (a) Pharmaceuticals
   (b) Fragrances
   (c) Aroma
   (d) Food additives.
8. Discuss various pathways of haploid production emphasizing its merits and demerits. [16]

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Code No: R05312306 **R05** **Set No. 4**

III B.Tech I Semester Examinations,November 2010
PLANT BIOTECHNOLOGY
Bio-Technology

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Discuss various pathways of haploid production emphasizing its merits and demerits. [16]
2. How precursor feeding can be useful for yield enhancement of secondary metabolites. [16]
3. Discuss few approaches to improve abiotic stress tolerance in crop plants by molecular genetic methodologies. [16]
4. Write short notes on the following: [4 × 4]
   (a) Pharmaceuticals
   (b) Fragrances
   (c) Aroma
   (d) Food additives.
5. Write in detail how herbicide resistant plants can be produced for Triazines and and Phosphinothricine. [16]
6. Write in detail about the method of meristem culture for production of virus free plants. [16]
7. Give an account of gene transfer methods in plants for the production of transgenic plants. [16]
8. Write short notes on the following: [4 × 4]
   (a) Chaperons
   (b) Caro Rx
   (c) Trypzean
   (d) Cederase.

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Code No: R05312306 **R05** **Set No. 1**

III B.Tech I Semester Examinations,November 2010
PLANT BIOTECHNOLOGY
Bio-Technology

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Discuss few approaches to improve abiotic stress tolerance in crop plants by molecular genetic methodologies. [16]
2. Write in detail how herbicide resistant plants can be produced for Triazines and and Phosphinothricine. [16]
3. Give an account of gene transfer methods in plants for the production of transgenic plants. [16]
4. Write in detail about the method of meristem culture for production of virus free plants. [16]
5. Write short notes on the following: [4 × 4]
   (a) Pharmaceuticals
   (b) Fragrances
   (c) Aroma
   (d) Food additives.
6. How precursor feeding can be useful for yield enhancement of secondary metabolites. [16]
7. Discuss various pathways of haploid production emphasizing its merits and demerits. [16]
8. Write short notes on the following: [4 × 4]
   (a) Chaperons
   (b) Caro Rx
   (c) Trypzean
   (d) Cederase.

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Code No: R05312306 **R05** **Set No. 3**

III B.Tech I Semester Examinations,November 2010
PLANT BIOTECHNOLOGY
Bio-Technology

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Discuss various pathways of haploid production emphasizing its merits and demerits. [16]
2. Write short notes on the following: [4 × 4]
   (a) Chaperons
   (b) Caro Rx
   (c) Trypzean
   (d) Cederase.
3. How precursor feeding can be useful for yield enhancement of secondary metabolites. [16]
4. Write in detail how herbicide resistant plants can be produced for Triazines and and Phosphinothricine. [16]
5. Write in detail about the method of meristem culture for production of virus free plants. [16]
6. Discuss few approaches to improve abiotic stress tolerance in crop plants by molecular genetic methodologies. [16]
7. Write short notes on the following: [4 × 4]
   (a) Pharmaceuticals
   (b) Fragrances
   (c) Aroma
   (d) Food additives.
8. Give an account of gene transfer methods in plants for the production of transgenic plants. [16]

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