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Sr. No. 2403

Exam Code: 210003

Subject Code: 3792

M.Sc. Botany-3rd Sem.

(2118)

Paper: BOT-C613

Plant Molecular Biology

Time allowed: 3 hrs.

Max. Marks: 50

Note: Candidates are required to attempt all Sections (A, B and C)
Section-A: Attempt all parts, each having 1 mark.
Section-B: Attempt any seven questions. Answer to any question should not exceed 2 pages. Each question carries 3 marks.
Section-C: Attempt any three questions. Answer to any question should not exceed 4 pages. Draw diagram wherever applicable. Each question carries 7 marks.

Section-A

1. Discuss in brief (2-4 lines each).

i) Transcriptional unit

ii) Ribonucleoproteins

- iii) rDNA
- iv) Western Blotting
- v) Cosmid
- vi) Lysogeny
- vii) RAPD
- viii) Artificial Chromosomes

Section-B

2. Write short notes on any seven of the following (3 marks each)

(3x7=21)

(1x8=8)

i) DNA sequencing

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- ii) Introns and Exons
- iii) Host cell restriction
- iv) Gene cloning
- v) Nomenclature of restriction endonucleases
- vi) Vectors for cloning single stranded DNA
- vii) pBR322
- viii) Ti plasmid
- ix) Transgenic plants
- x) Bioinformatics
- 3. Attempt any three of the following: (7 marks each) (7x3=21)
 - i) Give an account of RNA processing. Support your answer with suitable diagrams.
 - What do you understand by genomic library ? Give diff. steps for creation of genomic library of human beings.
 - iii) Give an account of use of plasmids in gene cloning.
 - iv) With the help of suitable diagram, give an account of PCR.

v) Give a detailed account of Microarrays.

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