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PGIVS-N 1633 A-2K13

M.Sc. IVth Semester (CBCS) Degree Examination

Biotechnology

(Plant Biotechnology)

Paper - HCT4.1

(New)

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Time : 3 Hours

Maximum Marks : 80

Instructions to candidates:

- i) Section 'A' has all compulsory questions.
- ii) Answer 'B' and 'C' sections as per instructions.

Section - A

Answer the following in brief:

(10×2=20)

- 1) Ti-Plasmids.
- 2) Gene targeting
- 3) Biofuels
- 4) Caulogenesis
- 5) Electroporation
- 6) AFLP
- 7) Bacterial Resistance.
- 8) Salt fractionations
- 9) Artificial Seed.
- 10) Farmer's Rights.

Section - B

Answer any **four** of the following:

(4×6=24)

- 11) Germplasm conservation.
- 12) Cybrids and somatic cell genetics.
- 13) Grain quality and grain yield.
- 14) Seed storage proteins.
- 15) Patenting of biological material
- 16) Gene transfer methods.

Section - C

Answer any **three** of the following:

(3×12=36)

17. Describe in detail the production of pharmaceutically important compounds.
18. Describe the method of Agrobacterium mediated gene transformation.
19. Give an account on androgenesis and its application in genetics and plant breeding.
20. Write a note on Molecular mapping.

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PG IV S- 1598 A - 2K14

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Instructions to Candidates :

- 1) Section A has all compulsory questions
- 2) Answer B & C sections as per instructions.

SECTION - A

1. Answer the following in brief. (10X2=20)
 - a. Organogenesis
 - b. Protoplasts
 - c. Opines
 - d. Binary Vector
 - e. Coat Protein
 - f. AFLP
 - g. Transesterification
 - h. Plantibodies
 - i. Gene silencing
 - j. PR Proteins.

SECTION - B

- Answer any four of the following (4X6=24)
11. M.S. Medium
 12. Cryo preservation
 13. Cybrids

14. Biolistics
15. Gene mapping
16. Biosafety in transgenic crops.

SECTION - C

Answer any three of the following (3X12=36)

17. Explain techniques advantages and disadvantages of micropropagation with suitable example.
18. Write an account on vector mediated gene transfer techniques in plants.
19. Discuss the importance of EST as a molecular marker Explain the protocol
20. Describe the concept of plant as bioreactor with examples.