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BOH 552

IV Semester M.Sc. Degree Examination, September/October 2022 (CBCS) BOTANY Plant Biotechnology

Time: 3 Hours Max. Marks: 70

- I. Answer any three of the following. Each answer not exceeding 5 pages. (3×10=30)
 - 1) Write an account of blotting techniques.
 - 2) Explain the steps involved in gene cloning.
 - 3) Give an account of molecular markers.
 - 4) Write an account of vectorless gene transfer.
 - 5) Explain the applications of transgenic plants in crop improvement.
- II. Write notes on any six of the following. Each answer not exceeding 3 pages. (6×5=30)
 - 6) Autoradiography.
 - 7) Gel electrophoresis.
 - 8) Identification of cloned genes.
 - 9) Gene testing.
 - 10) Advantages and disadvantages of vector mediated gene transfer.
 - 11) Edible vaccines.
 - 12) Single cell proteins.
 - 13) Herbicide resistance.
- III. Write short notes on any five of the following. Each answer not exceeding 1 page. (5×2=10)
 - 14) PAGE
 - 15) RT-PCR
 - 16) Ligases
 - 17) FISH
 - 18) Ti-plasmid
 - 19) Gemini virus
 - 20) Golden rice.
