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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.
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