

GANDHI P.R. COLLEGE, BHOPAL  
Assignment-2020-21  
M.Sc.-III SEM  
**Biotechnology**  
**Genetic Engineering**  
**Paper-I**

- Q.1 Attempt any five
- 1- Restriction enzymes and modifying enzymes
  - 2- Vehicles for gene cloning.
  - 3- Virus expression vectors
  - 4- DNA sequencing Techniques
  - 5- Uses of molecular probe
  - 6- Application of PCR in biotechnology
  - 7- Construction of molecular maps.
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**Biotechnology**  
**Biostatistics and Bioinformatics**  
**Paper-II**

- Q.1 Attempt any five
- 1- Various definitions of probability.
  - 2- Poisson and normal and their applications
  - 3- Database management system.
  - 4- Drug bank
  - 5- Various program and application
  - 6- Visualization & presentation of structure.
  - 7- Neural Network.

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**Plant Biotechnology**  
**Paper-III**

Q.1 Attempt any five

- 1- Somatic embryogenesis.
  - 2- Fusion and culture
  - 3- Ti and Ri Plasmid and viral vectors
  - 4- Biological nitrogen fixation and bio fertilization.
  - 5- Transgenic plants
  - 6- Socio economic impact and ecological consideration of GMO's
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**Paper-IV**  
Bioprocess & Biochemical Engineering

Q.1 Attempt any five

- 1- Introduction to Bioprocesses Engineering.
- 2- Air and media sterilization
- 3- Aeration and Agitation system for bioreactor
- 4- Removal of microbial cells and solid matter.
- 5- Classification of product formation.
- 6- Stability of microbial reaction.