

**D 6756**

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Name

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016**

(CUCSS)

General Biotechnology

GB 3C 1— GENETIC ENGINEERING

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Answer all questions.*

1. What is YAC?
2. Define Isoschizomers.
3. What do you mean by reporter genes?
4. Write the significance of shuttle vector.
5. What is gene editing?
6. What is chromosome micro-dissection ?
7. Write two disadvantages of GMO.
8. What is DNA transfection ?
9. What do you mean by Nested PCR?
10. Give the significance of GEP.

(10 x 1 = 10 weightage)

**Section B**

*Answer any seven questions.*

11. What is gene knockout technology?
12. AFLP.
13. Type II restriction enzymes.
14. Sanger-Coulson method of DNA sequencing.
15. Applications of PCR.
16. Molecular markers in genome analysis.
17. What is gene library?
18. Comment on the patenting of life forms.

Turn over

19. Hazards of environmental engineering.
20. Briefly explain the modifying enzymes in genetic engineering.

(7 x 2 = 14 weightage)

### Section C

*Answer any two questions.*

21. Explain the types of gene therapy. Give a role on the methods by which it is performed.
22. Describe the applications of molecular mapping.
23. Explain the blotting techniques used in genetic engineering.

(2 x 6 = 12 weightage)