

22580

Name:

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY, 2012
(General Biotechnology)

GB3C1 – Genetic Engineering
(2010 Admissions)

Time: Three hours

Maximum: 36 weightage

SECTION – A

(Answer all questions)

1. What is BAC?
2. Give the significance of GFP?
3. What do you mean by star value of restriction enzyme?
4. What is a marker gene?
5. Give the use of liposomes in genetic engineering.
6. What is a transgenic animal?
7. What do you mean by gene correction?
8. Comment on Type I restriction enzyme.
9. What is degenerate primer?
10. Write the advantage and disadvantage of using Taq polymerase.

(1x10=10 weightage)

SECTION – B

(Answer any seven)

11. What is phage display system?
12. Advantages of viral vectors.
13. How a cDNA library is constituted?
14. Describe the DNA micro array technology.
15. Comment on the concerns raised by GMO.
16. RFLP.
17. Types of gene therapy.
18. Patenting of life forms.
19. Colony hybridization.
20. Type II restriction enzymes.

(2x7=14 weightage)

SECTION – C

(Answer any TWO questions)

21. Write an essay on the biosafety regulations of rDNA technology.
22. What is PCR? Explain the types and applications of PCR.
23. Describe the DNA sequencing techniques.

(2x6=12 weightage)

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