

D 31370

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2012

(CUCSS)

General Biotechnology

GB 3C 1—GENETIC ENGINEERING

(2010 admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

1. What is PAC ?
2. What is the use of S₁ nuclease ?
3. Write the significance of CaMv promoter.
4. What do you mean by palindromic sequence ?
5. What is plaque hybridisation ?
6. What is a reporter gene ?
7. What is gene augmentation ?
8. What is the significance of GFP ?
9. What is refolding ?
10. What is south-western blot ?

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

11. Chromosome walking.
12. What is RNA interference ?
13. How recombinant proteins are processed ?
14. Write the standard procedure for taking a patent.
15. What is colony hybridisation ?
16. Automated DNA sequencing.
17. Microarray technology.
18. What is phage display system ?
19. Gene therapy vectors.
20. Explain the applications of molecular mapping in disease diagnosis.

(7 x 2 = 14 weightage)

Turn over

Section C

Answer any two questions.

21. Explain the characterisation of recombinant proteins.
22. Explain the construction of a cDNA library. How it is different from a gene library ? Add a note on the applications of gene/cDNA libraries.
23. Describe the types and characters of restriction enzymes.

(2 x 6 = 12 weightage)