

C 3459

(Pages : 2)

Name

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCSS)

Microbiology

MB 4E 05—GENETIC ENGINEERING

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Write short answers. Answer *all* the following. Each question carries 1 weightage.

- 1 **Blunt** end cutters.
- 2 cDNA.
- 3 Primers.
- 4 Adaptors.
- 5 DNA ligase.
- 6 5' RACE.
- 7 FISH.
- 8 Radiolabelled probes.
- 9 IPTG.
- 10 Cloning vector.
- 11 CaMV 35S promoter.
- 12 Binary vector.
- 13 SDS-PAGE.
- 14 YAC.

(14 x 1 = 14 weightage)

II. Write a short paragraph on any *seven* of the following. Each question carries 2 weightage.

- 15 AFLP.
- 16 Pyrosequencing.
- 17 Genomic library.
- 18 Purification methods for recombinant proteins.
- 19 Nested PCR.
- 20 Electroporation.
- 21 Dideoxy method of DNA sequencing.
- 22 Ti plasmid.

Turn over

23 Plaque lift assay.

24 Bacterial transformation.

(7 x 2 = 14 weightage)

III. Explain the following. Answer any *two* of the following. Each question carries 4 weightage

25 Western Blotting and its applications.

26 RAPD and its applications.

27 Site Directed Mutagenesis methods and applications.

(2 x 4 = 8 weightage)