

C 83685

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (CUCSS) EXAMINATION
JUNE 2015**

Microbiology

MB 2C 05 MICROBIAL GENETICS

Maximum : 36 Weightage

Time : Three Hours

to briefly on the following. Each question carries 1 weightage

- 1 Missence mutation.
- 2 Transversion.
- 3 Catabolic repression.
- 4 Auxotrophs.
- 5 Sex pili.
- 6 Telomerase.
- 7 DNA ligases.
- 8 Episomes.
- 9 Linker DNA.
- 10 Lysogeny.
- 11 Spontaneous mutation.
- 12 Inversion mutation.
- 13 Action of UV on DNA.
- 14 Taq polymerase.

(14 x 1 = 14 weightage)

II. Write notes in *one paragraph* on any *seven* of the following. Each question carries 2 weightage :—

- 15 General structure of an operon.
- 16 Restriction endonucleases.
- 17 Griffith's experiment.
- 18 RFLP.
- 19 Bacterial conjugation.
- 20 RT-PCR.
- 21 Transduction.
- 22 RAPD.

Turn over

- 23 Plasmid cloning strategies.
- 24 Heterologous protein expression in Prokaryotes.

III. Answer any *two* questions. Each question carries 4 weightage :— (7 x 2 = 14 weightage)

- 25 Give a brief account of mutagenic agents and their mechanisms of action.
- 26 Discuss transposons—types and mechanism of transposition.
- 27 Discuss operon concept.

(2 x 4 = 8 weightage)

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