

D 71397

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Name

Reg. No.

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
DECEMBER 2014**

(CUCSS)

Microbiology

MB 3E 02 – DIAGNOSTIC MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions in one **or** two sentences.*

Each question carries a weightage of 1.

1. RNA Probe.
2. Tag polymerase.
3. Quencher.
4. rpo gene.
5. Amplicon.
6. Vancomycin agar.
7. Crossing point.
8. DNA primers.
9. Latex agglutination.
10. β -lactamase.
11. Restriction endonuclease.
12. D test.
13. Synergy testing.
14. Ligase chain reaction.

(14 x 1 = 14 weightage)

Section B

*Write short notes on any **seven** questions.*

Each question carries a weightage of 2.

15. Southern blot hybridisation.
16. Rapid antigen tests.
17. Nucleic acid sequencing.

Turn over

18. Phenotypic testing of Bacterial antimicrobial susceptibility.
19. Enzyme immunoassays.
20. Real time PCR.
21. Pulsed field Gel Electrophoresis.
22. Recent advances in diagnosis of *Mycobacterium tuberculosis*.

(7 x 2 = 14 weightage)

Section C

Answer the following in detail on any two questions.

Each question carries a weightage of 4.

23. Role of PCR in diagnostic bacteriology.
24. Automated Microbial identification and characterisation.
25. Automated blood culture.

(2 x 4 = 8 weightage)