

D 1699

Name.....

Reg. No.

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
NOVEMBER 2009**

Microbiology

MB 3.2 T – MOLECULAR BIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer **all** questions.*

Each question carries 2 marks.

Write very briefly on :

- | | |
|-------------------------------------|------------------------|
| 1. Z-DNA. | 2. Topoisomerase. |
| 3. Post Translational Repair. | 4. Hfr Strain. |
| 5. Excision repair. | 6. Wobble. |
| 7. Complementation. | 8. Transcriptome. |
| 9. Hydrophobic interactions in DNA. | 10. Silent mutation. |
| 11. Sigma factor. | 12. Transposons. |
| 13. Western blot. | 14. Repressor protein. |
| 15. Temperate phage. | 16. Reading Frame. |
| 17. Tumor suppressor genes. | 18. Episomes. |
| 19. Frameshift mutation. | 20. Sn RNA. |

(20 x 2 = 40 marks)

Section B

*Answer any **five** questions.*

Each question carries 8 marks.

Write notes on :

1. Watson and Crick model of DNA.
2. DNA replication in prokaryotes.
3. Trp operon.
4. Tumor suppressor genes.
5. DNA repair mechanisms.
6. Phage mediated gene transfer mechanisms in bacteria.
7. Transcription factors.

(5 x 8 = 40 marks)

D 1698

Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
NOVEMBER 2009**

Microbiology

MB 3.1 T – MEDICAL MICROBIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Write brief on **all** questions.
Each question carries 2 marks.*

- | | |
|-----------------------|----------------------|
| 1. Toxoid. | 2. Pyocyanin. |
| 3. Colicin. | 4. Food poisoning. |
| 5. Gonococcus. | 6. P.P.L.O. |
| 7. Q Fever. | 8. Lyme Disease. |
| 9. Trachoma. | 10. Antigenic drift. |
| 11. HIV. | 12. Dengue. |
| 13. Dimorphic fungus. | 14. Aflatoxin. |
| 15. Chagas Disease. | 16. Schizont. |
| 17. Amphotericin. | 18. MIC. |
| 19. Beta lactamase. | 20. Tetracycline. |

(20 x 2 = 40 marks)

Section B

*Write notes on any **five** questions.
Each question carries 8 marks.*

21. Meningitis.
22. Prophylaxis of diphtheria.
23. Leptospirosis.
24. Typhus fevers.
25. Chlamydiae.
26. Giardiasis.
27. Aminoglycosides.

(5 x 8 = 40 marks)