Roll No. : .....

Total No. of Questions : **16**] [Total No. of Printed Pages : **3**

EMIC–327

M.Sc. (IIIrd Semester) Examination, Jan.–2023

MICROBIOLOGY

Paper – FS–MIC–CE–303(A)

(Medical Microbiology)

*Time : **3** Hours*] [*Maximum Marks : **40***

The question paper contains three Sections.

Section–A **(Marks : 1 × 10 = 10)**

Note :– Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section–B **(Marks : 3 × 5 = 15)**

Note :– Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.

Section–C **(Marks : 5 × 3 = 15)**

Note :– Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

Section–A

1. Define the following :

   (i) Brady Cardia.

(ii) LD50

(iii) O antigen

(iv) Tetanospasmin

(v) Exotoxins

(vi) Neurotoxin

(vii) Epidemiology

(viii) Tetracycline

(ix) Covishield

(x) MIC

Section–B

Unit–I

2. Write a short note on Gnotobiotic animals.

3. Write a brief note on human resident microflora.

4. How to diagnose SARS-Cov-2 in the Laboratory ?

Unit–II

5. Write a short note on Typhoid.

6. Write a short note on Ringworm.

7. Write a short note on Foot and Mouth Disease.

Unit–III

8. Write a short note on antimicrobial resistance.

9. Write a short note on virulence genes.

10. Write briefly about multi-drug efflux pumps.

Section–C

Unit–I

11. Write an essay on Nosocomial Infections.

12. Write an essay on molecular diagnosis of a disease.

Unit–II

13. Describe the following :

    (a) Pneumonia

    (b) Mumps

14. Describe the following :

    (a) Cowpox

    (b) Black quarter

Unit–III

15. Describe in detail about *two* component signal transduction systems.

16. Write an essay on bacterial secretion systems.