

Roll No. : .....

Total No. of Questions : 16 ]

[ Total No. of Printed Pages : 3

# **SEM-3022**

**M.Sc. (IIIrd Semester) Examination, 2022**

**MICROBIOLOGY**

Paper - MBCE-303 (a)

**(Medical Microbiology)**

*Time : 3 Hours ]*

*[ Maximum Marks : 40*

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

**Section-A**

1. (i) Define ID 50.
- (ii) What are Exotoxins ?

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- (iii) What do you understand by Necrosis ?
- (iv) What are Negri Bodies ?
- (v) What is Tetanospasmin ?
- (vi) Measles is caused by .....
- (vii) Why DPT is given ?
- (viii) Write the use of tetracycline.
- (ix) What do you understand by MIC ?
- (x) What do you understand by Autoinducers ?

### **Section–B**

#### **Unit–I**

- 2. Write a short note on Pathogenicity.
- 3. Write a short note on virulence determinants.
- 4. Write a short note on Nosocomial Infections.

#### **Unit–II**

- 5. Explain briefly about Human Pox.
- 6. Write briefly about the diagnosis and treatment of Typhoid.
- 7. Write briefly about the ringworm disease.

#### **Unit–III**

- 8. Write a short note on antimicrobial resistance.
- 9. Write a short note on Phospho-relay Systems in Bacteria.
- 10. Write briefly about the importance of General secretory pathway in Bacterial Virulence.

## **Section-C**

### **Unit-I**

11. Write an essay on Normal Microbiota of human body and gnotobiotic animals.
12. Describe in detail about the mechanism of Pathogenesis.

### **Unit-II**

13. Write an essay on the viral diseases of domestic animals.
14. Write an essay on AIDS.

### **Unit-III**

15. Explain in detail about antibiotics and their classification and their mode of action.
16. Give a brief account of available vaccines and their schedule in India.