

**D 90242-E**

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION  
NOVEMBER 2020**

(CUCBCSS—UG)

Microbiology

MBG 5B 09—MEDICAL MICROBIOLOGY—I

(2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Section A**

*Answer all questions.  
Each question carries 1 mark.*

1. Define ID<sub>50</sub>.
2. Give an example for a zoonotic disease.
3. Name the causative agent of travellers' diarrhoea.
4. Which is the immunological test used to diagnose typhoid ?
5. What is catalase test ?
6. Define pandemic.
7. Leptospirosis is spread through \_\_\_\_\_.
8. Name selective media used to culture *Mycobacterium tuberculosis*.
9. Rose spots occur during \_\_\_\_\_ infection.
10. What do you mean by attenuation ?
11. What is the morphology of *Streptococcus pneumoniae* ?
12. Rice water stool is a characteristic symptom of \_\_\_\_\_.

(12 × 1 = 12 marks)

**Section B**

*Answer at least eight questions.  
Each question carries 3 marks.  
All questions can be attended.  
Overall Ceiling 24.*

13. Differentiate between septicemia and bacteremia.
14. What is Elek's test ?

**Turn over**

15. What is MRSA ?
16. Comment on TAB Vaccine.
17. Differentiate between epizootic and enzootic infections.
18. What are the various diseases caused by *Pseudomonas aeruginosa* ?
19. What are the different methods of transmission of infections ?
20. Differentiate virulence and pathogenicity.
21. Is *Bacillus anthracis* a biological weapon ? If so why ?
22. Write on VDRL test.

(8 × 3 = 24 marks)

### Section C

*Answer at least five questions.  
Each question carries 6 marks.  
All questions can be attended.  
Overall Ceiling 30.*

23. What is normal flora? Explain normal flora of human body.
24. What are the various factors influencing the virulence of a pathogen ? Explain.
25. Explain the pathogenesis of *Vibrio cholerae*.
26. Write about the pathogenesis and symptoms of tetanus. Also specify the mode of action of tetanus toxin.
27. Briefly explain the morphology, cultural characteristics and lab diagnosis of *Treponema pallidum*.
28. Elaborate the various infections caused by *E-coli*.
29. Explain the pathogenesis, symptoms and lab diagnosis of diphtheria.
30. Write in detail about the pathogenicity and symptoms of typhus fever. How is it spread ?

(5 × 6 = 30 marks)

### Section D

*Answer atleast one question.  
The question carries 14 marks.*

31. Write an essay on morphology, cultural characteristics, biochemical characters, pathogenicity, laboratory diagnosis and prevention of tuberculosis.
32. Explain in detail the collection and transport of clinical specimens for microbiological examinations
33. Write an essay on morphology, cultural characteristics, biochemical characters, pathogenicity, laboratory diagnosis and prevention of gonorrhoea.

(1 × 14 = 14 marks)