

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 ID50.
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 characteristics and laboratory diagnosis of *Staphylococcus aureus*.