

**C 80151**

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Name.....

Reg. No.....

**SIXTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION, MARCH 2020**

(CUCBCSS—UG)

Biotechnology

BTY 6B 17—MEDICAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 80 Marks

**Section A**

*Answer any two out of four questions in about 1,500 words.*

*Each question carries 10 marks.*

1. Explain general routine identification procedures for pathogenic bacteria.
2. Describe antigen antibody reactions.
3. Describe the properties of Clostridia.
4. Write a note on antimicrobial therapy.

(2 × 10 = 20 marks)

**Section B**

*Answer any seven out of fourteen questions in about 750 words.*

*Each question carries 5 marks.*

5. Describe moist heat sterilization technique.
6. Describe the mode of transmission of infections.
7. Write a note on Staphylococcal diseases.
8. Describe the structure and functions of thymus.
9. Describe the antigenic and pathogenic properties of Streptococcus pyogenes.
10. Discuss the pathogenic significance of pneumococci.
11. Describe the properties of Pseudomonas.
12. Write a note on human herpes viruses.
13. How is AIDS caused ?
14. Explain the laboratory control of antimicrobial therapy.
15. Write a note on immunoprophylaxis.
16. Explain the pathogenesis of serum hepatitis.

**Turn over**

17. Write a note on Mycoplasma and its pathogenic importance.
18. Explain the pathogenesis of botulism.

(7 × 5 = 35 marks)

### Section C

*Answer all questions in about 300 words.*

*Each question carries 3 marks.*

19. How is typhoid transmitted ?
20. Write briefly on causative agent of Weil's disease.
21. What are the infections caused by herpes simplex virus Type I ?
22. Write a note on infectious hepatitis.
23. What is the pathogenic importance of Shigella ?

(5 × 3 = 15 marks)

### Section D

*Answer all questions in about 200 words.*

*Each question carries 2 marks.*

24. What is coagulase ?
25. What is the principle of Quellung test.
26. How is Mycobacterium tuberculosis cultured ?
27. What are complements ?
28. What are the functions of lymph nodes ?

(5 × 2 = 10 marks)