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B.Sc. RNLKWC-/C13T/22

2022

MICROBIOLOGY

[Honours]

B.Sc. Sixth Semester End Examination - 2022

PAPER - C13T

Full Marks : 40

Time : 2 hours

*The figures in the right-hand margin indicate marks.
Candidates are required to give their answers in their own
words as far as practicable.
Illustrate the answers wherever necessary.*

Answer any five questions from the following : 5×2=10

1. Which antibiotics are MRSA resistant?
2. What is NDM-I?
3. What is pathogenicity island?
4. When does a normal microfloral become an opportunistic pathogen?

(Turn Over)

(2)

5. Which component of cell wall of gram negative bacteria is responsible for activation of innate immunity?
6. Distinguish between exotoxin and endotoxin.
7. What are transient flora? How do they differ from resident flora.
8. Give example of antimicrobial agent that block cell wall and nucleic acid synthesis.

Answer any four question from the following : 4×5=20

1. Write down the causative agent, mode of transmission and prophylaxis of the disease kala-azar? 1+2+2
2. Describe about two modes of action of antibacterial drug with suitable examples. 5
3. Describe about complement fixation, with application. 5
4. What is meant by pathogen? What are virulence factors? Explain with example. Define Tinea pedis 1+(1+1)+2
5. Discuss the basis of primary immunity of tuberculosis. Differentiate primary and post primary immunity. 2½+2½

(3)

6. Write the mode of transmission of viral disease. Discuss the mechanism of action of acyclovir. (2½+2½)

Answer any one question from the following : 1×10=10

1. a) Write down the principle of PCR along with its applications in diagnosis of infectious diseases. 2+3
b) Write down the virulence property of streptococcus pyogenes. 5
2. Write down the pathogenesis of Bacillus anthracis. What is swine influenza? Write about Ebola and Chikungunya. 5+2+3