

**BACHELOR OF SCIENCE (CBCS-2018 COURSE)**  
**T. Y. B. Sc. Sem-V : WINTER :- 2021**  
**SUBJECT: MICROBIOLOGY : MEDICAL MICROBIOLOGY**

Day : Wednesday  
Date 19-01-2022

W-18430-2021

Time : 02:00 PM-05:00 PM  
Max. Marks: 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Draw neat labelled diagram **WHEREVER** necessary.
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**Q.1** Attempt **ANY TWO** of the following **(12)**

- a) Explain the concept of Botulism and comment on Botulinum toxin.
- b) Explain the term 'Pseudomembranous colitis' and comment on unexplained resistance of babies to toxins of *Clostridium difficile*.
- c) Giving suitable examples explain the significance of comparative claim settlement ratios of health insurance companies in India.

**Q.2** Attempt **ANY TWO** of the following **(12)**

- a) Explain immune mimicry of *Helicobacter pylori*.
- b) Describe toxic activities of *Shigella dysenteriae* Type 1.
- c) Discuss prophylaxis of 'Poliomyelitis'.

**Q.3** Attempt **ANY TWO** of the following **(12)**

- a) Explain apoptosis of CD<sub>4</sub> cells, following HIV infection.
- b) Describe symptoms and mode of transmission of 'Dengue'.
- c) Give etiology and symptoms of 'Plague'.

**Q.4** Write short notes on **ANY THREE** of the following **(12)**

- a) Ranikhet
- b) Mode of transmission of HIV
- c) Symptoms of Typhoid
- d) Symptoms of Gonorrhoea

**Q.5** Attempt **ANY FOUR** of the following **(12)**

- a) Write etiology of Herpes
- b) Enlist symptoms of Cholera
- c) Describe ICTV classification of HIV
- d) Give antigenic properties of Polio virus.
- e) Enlist permanent exclusions in medical policies.
- f) Give symptoms of Rabies.

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