

# Question Paper

Exam Date & Time: 18-Apr-2022 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER BPT / BOT / B.Sc. RRT &DT / BAOTT / BSc. RT / BSc. PFT / BSc. MIT / BSc. CVT DEGREE  
EXAMINATION - APRIL 2022  
SUBJECT: MICR 201 - MICROBIOLOGY  
(2016 / 2019 SCHEME)

Marks: 50

Duration: 120 mins.

- 1) Explain the pathogenesis and laboratory diagnosis of enteric fever. (10)  
(4+6 = 10 marks)
- 2) Classify sterilization. Explain the working principle and articles sterilized using autoclave. (10)  
(4+4+2 = 10 marks)

### 3. Write short notes on:

- 3A) Components of innate immunity. (5)
- 3B) Pathogenesis of influenza virus. (5)
- 3C) Bacterial cell wall. (5)
- 3D) Laboratory diagnosis of HIV infections. (5)

### 4. Answer the following:

- 4A) Name TWO parasites causing intestinal infections. (2)
- 4B) Mention TWO bacterial culture methods. (2)
- 4C) List Any TWO bacteria causing meningitis. (2)
- 4D) Name TWO functions of IgM antibody. (2)
- 4E) Classify bacteria based on morphology. (2)

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