



**JF-M201720**                      Seat No. \_\_\_\_\_  
**Second Year M. B. B. S. Examination**  
**July – 2019**  
**Microbiology : Paper - I**  
**(General Microbiology, Immunology,**  
**Systemic Bacteriology)**

Time : 2 Hours]

[Total Marks : 40

**Instructions :**

- (1) Figures on right indicate full Marks.
- (2) Draw figures wherever necessary.
- (3) Write Section-I and Section-II in separate answer sheets.

**SECTION - I**

- 1**    Applied question : **10**  
      A 10-years old girl developed severe watery diarrhoea and vomiting. The stool collected has a rice watery type appearance. It was sent for bacteriological analysis.
- a.    What is the most likely diagnosis of bacterial infection? **1**
  - b.    Name bacteria responsible for the clinical condition. **2**
  - c.    Write the details of laboratory diagnosis to confirm the suspected infection. **7**
- 2**    Write short notes on : (any two) **10**
- a)    Bacterial flagella.
  - b)    Autoclave.
  - c)    Anaerobic culture methods.

**SECTION - II**

- 3**    Write short notes on : (any two) **10**
- a)    Anaphylaxis.
  - b)    Immunoglobulin M (IgM).
  - c)    Classical complement pathway.

- 4 Write answer in 2-3 sentences : (any five) 10
- a) Write 2 contributions of Louis Pasteur.
  - b) Write 2 examples of Selective media.
  - c) Write 2 differences between active & passive immunity.
  - d) Write 2 differences between T & B lymphocytes.
  - e) Write 2 selective media used for isolation of Salmonella.
  - f) Write 4 media used for isolation of *M.tuberculosis*.
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