

**PARUL UNIVERSITY**  
**FACULTY OF MEDICINE**  
**M.B.B.S January 2020 Examination**

**Year: 2****Subject Code: 19100203****Subject Name: Microbiology- I****Date: 10/01/2020****Time: 10:30 am to 12:30 pm****Total Marks: 40****Instructions:**

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section-A, section-B, and section-C on separate answer sheets.

**SECTION – A****[16 Marks]**Q.1. Write Any **TWO out of THREE**.**(2x5=10)**

- a. Define Sterilization. Write in detail about moist heat sterilization above 100<sup>0</sup> C.
- b. Define Agglutination reaction. Write different types of agglutination reactions with examples.
- c. Structure and Function of Bacterial cell wall.

Q.2. Write Any **TWO out of THREE**.**(2x3=06)**

- a. Structure of Immunoglobulin G.
- b. Bacterial growth curve.
- c. ELISA (Enzyme Linked Immunosorbent Assay).

**SECTION – B****[10 Marks]**Q.3. Write Any **TWO out of THREE**.**(2x5=10)**

- a. Draw life cycle of Plasmodium and write about Laboratory diagnosis of Malaria.
- b. Classify Immunity and write about Acquired Immunity.
- c. Delayed hypersensitivity.

**SECTION – C****[14 Marks]**Q.4. Write Any **TWO out of THREE**.**(2x4=8)**

- a. Laboratory diagnosis of Bancroftian Filariasis.
- b. Write extra intestinal (metastatic) lesions and Laboratory of E. histolytica.
- c. Hydatid Cyst.

Q.5. Write in **One sentence**.**(6x1=6)**

- a. Incomplete antigen is also known as \_\_\_\_\_.
- b. The counterpart on antibody which combines with epitope is called as \_\_\_\_\_.
- c. Write two examples of live attenuated vaccines.
- d. The common way of transmission of plasmids in bacteria is \_\_\_\_\_.
- e. Examples of two parasite where human acts as an intermediate host.
- f. Name two hemoflagellates.