

PARUL INSTITUTE OF MEDICAL SCIENCES AND RESEARCH

DEPARTMENT OF MICROBIOLOGY

2<sup>ND</sup> MBBS FIRST INTERNAL

DATE: 24.01.2018

TIME: 10:00 AM TO 12:00 NOON

TOTAL MARKS: 40

**Instructions:**

1. All questions are mandatory
2. Figures to the right indicate full marks.
3. Draw Diagram wherever necessary.

**SECTION – I**

[16 Marks]

Q.1. Write **ONE** out of **TWO**.

(1x10=10)

- a. Write about Staphylococcus aureus- Morphology, Pathogenesis and Laboratory diagnosis.
- b. Classify Streptococcus. Write about Virulence factors of Streptococcus pyogenes. Give an account of Non suppurative complication of Streptococcus pyogenes.

Q.2. Write **TWO** out of **THREE**.

(2x3=6)

- a. Koch's Postulates.
- b. Bacterial Flagella.
- c. Gene transfer mechanisms in Bacteria.

**SECTION – II**

[10 Marks]

Q.3. Write **TWO** out of **THREE**.

(2x5=10)

- a. Define Immunity. Write about Active acquired immunity.
- b. ELISA.
- c. Anaphylaxis and Atopy.

**SECTION – III**

[14 Marks]

Q.4. Write **TWO** out of **THREE**.

(2x4=8)

- a. Autoclave.
- b. Structure of Immunoglobulin.
- c. Precipitation Reaction.

Q.5. Write in One sentence.

(6x1=6)

- a. Give two examples of Gas based disinfectants.
- b. Name the Immunoglobulin that can cross placenta.
- c. Non toxigenic C diphtheria acquires Tox gene by \_\_\_\_\_.
- d. Write two types of delayed hypersensitivity reactions.
- e. Give One Example of Passive agglutination and Reverse passive agglutination each.
- f. What is iatrogenic infection?