

Seat No: _____

Enrolment No: _____

PARUL UNIVERSITY
FACULTY OF MEDICINE
M.B.B.S Examination January-2019

Year: 2
Subject Code: 19100203
Subject Name: Microbiology- I

Date: 01/02/2019
Time: 10:30am to 12:30pm
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

- Q.1 Write any **TWO** out of **THREE**.(2X5) (10)
- a) Autoclave
 - b) Differences between exotoxin and endotoxin
 - c) Bacterial flagella
- Q.2 Write any **TWO** out of **THREE**. (2X3) (06)
- a) Bacterial growth curve
 - b) Heterophile Antigens
 - c) Robert Koch

SECTION – B

- Q.3 Write any **TWO** out of **THREE**.(5X2) (10)
- a) Agglutination reactions.
 - b) Anaphylaxis
 - c) Rapid tests for detection of Ag or Ab

SECTION – C

- Q.4 Write any **TWO** out of **THREE** (2X4) (08)
- a) Life cycle of plasmodium and complications of *P. falciparum*
 - b) Write life cycle and pathogenicity of *Ascaris lubricoides*
 - c) Life cycle and lab diagnosis of *Echinococcus granulosus*
- Q.5 Write in one sentences. (6X1) (06)
- a. Name two abnormal antibodies
 - b. Presence of _____ antibody indicates current infection.
 - c. Two types of culture methods.
 - d. Two methods of dry heat sterilization.
 - e. Holding period of autoclave is _____ minutes at _____ °C temperature.
 - f. What is generation time of *E.coli* and *M. tuberculosis*.