

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF APPLIED SCIENCES**  
**MID SEMESTER INTERNAL EXAMINATION, APRIL 2017**  
**B. Sc. Semester IV**  
**Subject: Microbiology**

**Paper Code: 11201153**

**Title of the paper: Medical Microbiology**

**Date: 13 /04/2017**

**Time: 12.30 p.m. to 02.00 p.m.**

**Maximum Marks: 40**

**Instructions:**

- 1. All questions are compulsory and options are given in first and second question only.**
  - 2. Numbers to the right of question indicate the marks of respective question.**
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**Q. 1** Attempt any one question of the following. **(08)**

- (i) Give the detailed description of normal micro flora of human body
- (ii) Give the details of pathogenesis, symptoms, diagnostic principle and treatment of Cholera.

**Q. 2** Attempt any three questions of the following. **(12)**

- (i) Short note on Symptoms and Pathogenesis of Tetanus.
- (ii) Short note on Anthrax as Biological weapon
- (iii) What are Nonspecific host defenses?
- (iv) Epidemiological triangle.
- (v) Differences between El tor and Classical vibrio.

**Q. 3** Do as directed. Attempt all five questions. **(05)**

- (i) What is the causative agent of Cholera?
- (ii) What are the different kinds of toxins?
- (iii) What are prebiotic food? Example
- (iv) Name two portal of entry of the microorganisms in the host body.
- (v) Name two normal microflora of conjunctiva.

**Q. 4** Write correct option in your answer sheet for following 15 multiple choice questions. **(15)**

- MCQ 1** Which bacteria can be considered as biological weapon?  
(A) *S. aureus* (B) *Bacillus anthraxis*  
(C) *Treponema palidum* (D) *Streptococcus sp*
- MCQ 2** String test can be used to detect  
(A) *S. aureus* (B) *Bacillus anthraxis*  
(C) *Treponema palidum* (D) *Vibrio cholerae*
- MCQ 3** Three toxins produced by Anthrax causing organism  
(A) PA, NF, LF (B) LF, CF, GR  
(C) LF, GF, CR (D) None of these
- MCQ 4** Virulence factors of bacteria are  
(A) Steptokinase (B) V protein  
(C) R plasmid (D) F plasmid
- MCQ 5** The most contagious state of Syphilis infection is  
(A) Primary stage (B) Secondary stage  
(C) Both (D) None

- MCQ 6 Tetanospasmin is a  
 (A) Enterotoxin (B) Neurotoxin  
 (C) Pulmonary toxin (D) None
- MCQ 7 Phagocytosis can be done by  
 (A) Macrophages (B) Dendritic cells  
 (C) Neutrophils (D) All of them
- MCQ 8 The nail flora includes  
 (A) Aspergillus (B) Cladosporium  
 (C) Both (D) None
- MCQ 9 The natural reservoir of Anthrax is  
 (A) Soil (B) Fruit  
 (C) Water (D) None
- MCQ 10 Pus-forming forms are called as  
 (A) Pyogenic (B) Pyrogenic  
 (C) Gestation (D) Pyrologic
- MCQ 11 The probiotic food is  
 (A) Cereals (B) Vodka  
 (C) Curd (D) None
- MCQ 12 Non specific host defense is  
 (A) B cell (B) Skin  
 (C) T cell (D) None
- MCQ 13 The factors of Epidemiology can be described by  
 (A) Triangle (B) Square  
 (C) Circle (D) None
- MCQ 14 Skin microflora contains  
 (A) Staphylococcus epidermis (B) Streptococcus pyogens  
 (C) Methanogens (D) E coli
- MCQ 15 The ratio of human cells: normal microflora is  
 (A) 1:10 (B) 1:100  
 (C) 1:2 (D) 1:4

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