



HAL-02012142

Seat No. _____

Second Year M. B. B. S. Examination

June / July - 2017

Microbiology : Paper - I

(General Microbiology, Immunology, Systemic Bacteriology)

Time : 2 Hours]

[Total Marks : 40

- Instructions :**
- (1) Figure on **right** indicate full marks.
 - (2) Draw figures wherever necessary.
 - (3) Write Section-1 and Section-2 in separate answer sheet.

SECTION - I

- 1 A 25 years old male patient admitted with history of sudden onset of pain less, Profuse, watery diarrhoea and vomiting for the last 24 hours. He had no fever but had signs of dehydrations. Stool sample collected and it was rice watery type, send to laboratory for testing for causative organism. Answer the following : **10**
- (a) What is the most likely bacterial infection suspected in this case ? **1**
 - (b) Enlist bacterial agents causing diarrhoeal diseases. **2**
 - (c) Write method of collection and transport of stool sample. **2**
 - (d) Write method of laboratory diagnosis of the infection in above case. **5**
- 2 Write short notes on : (any two) **10**
- (a) Methods of Dry heat sterilization.
 - (b) Bacterial Flagella.
 - (c) Methods of isolation of Bacteria for pure culture.

SECTION - II

- 3 Write short notes on : (any two) **10**
- (a) Type-1 hypersensitivity
 - (b) WIDAL test
 - (c) Immunoglobulin G.

- 4 Write short answers of : (any five) 10
- (a) Define Heterophile antigens. Name two serological tests based on this mechanism.
 - (b) Name two Transport media and write their uses.
 - (c) Name two sexually transmitted bacterial diseases and their causative agents.
 - (d) Pathogenicity of *Pseudomonas aeruginosa*.
 - (e) Disposal of used and contaminated syringes and needles.
 - (f) What is Plasmid ? Mention its functions.
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