



MK-201720

Seat No. _____

Second Year M. B. B. S. Examination

January – 2018

Microbiology : Paper - I

(General Microbiology, Immunology, Systemic Bacteriology)

Time : **2 Hours**]

[Total Marks : **40**

- Instructions :**
- (1) Figures on right hand side indicate full marks.
 - (2) Draw neat and clean diagram wherever necessary.
 - (3) Write Section-I and Section-II in separate answer book.

SECTION - I

- 1 A 26 years old male patient presented with headache, malaise, anorexia, coated tongue, step ladder fever and abdominal discomfort since 3-4 days. He had visited famous restaurant more than a week ago. On routine examination spleen is palpable, which is soft in consistency along with hepatomegaly and red macules over chest. which fads on pressure.
 - (a) Which is the most probable bacterial infection suspected in this case? **1**
 - (b) Enumerates the other causative bacteria causing pyrexia. **2**
 - (c) Describe the laboratory diagnosis of clinical condition presented. **6**
 - (d) Describe the prophylaxis of clinical condition presented. **1**

- 2 Write short notes on : (any **two**) **10**
 - (a) Bacterial Capsule and slime layer.
 - (b) Sterilization by Autoclave
 - (c) Anaerobiosis.

SECTION - II

- 3** Write short notes on : (any **two**) **10**
- (a) Type III Hypersensitivity Reactions.
 - (b) Major Histocompatibility Complex.
 - (c) Enzyme-Linked Imunosorbent Assay (ELISA).
- 4** Write answers in 2-3 sentences : (any **five**) **10**
- (a) Name two methods used for sterilization by radiation.
 - (b) Draw labeled diagram of Bacterial flageller arrangements.
 - (c) What is superantigen? Give it's example.
 - (d) Define Zone Phenomenon.
 - (e) Runyoun classification of Non-Tuberculous Mycobacteria.
 - (f) Enumerate virulence factors of Streptococcus pyogenes.
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