



JAV-M01720

Seat No. _____

Second Year M. B. B. S. Examination

December - 2019

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 32 years old female patient presented with headache, malaise, anorexia, coated tongue, step ladder fever and abdominal discomfort since 4-5 days. 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) Enumerate 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) Enumerate Methods of Sterilization by moist heat and describe Autoclaving in detail.
- (B) Mechanisms of Antimicrobial Resistance.
- (C) Bacterial Gene Transfer.

SECTION - II

- 3** Write short notes on : (Any **Two**) **10**
- (A) Innate Immunity and its Mechanisms.
 - (B) Structure and functions of Peripheral Lymphoid Organs.
 - (C) Complement System.
- 4** Write answers in 2-3 sentences : (Any **Five**) **10**
- (A) Draw labeled diagram of Different Bacterial Arrangements.
 - (B) Define and enumerate types of carrier.
 - (C) Define Heterophile Antigen and Enumerate its Diagnostic Applications.
 - (D) Draw labeled diagram of Immunoglobulin.
 - (E) Mode of transmission of Human Anthrax.
 - (F) Bacterial Species belongs to HACEK Group.
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