



PAC-0201720

Seat No. _____

Second Year M.B.B.S. Examination

July - 2020

Microbiology : Paper - I

(General Microbiology + Immunology + Systemic Bacteriology)

Time : 2 Hours]

[Total Marks : 40

- Instructions :** (1) Figures on right indicates full Marks.
(2) Draw figures wherever necessary.
(3) Write Section-I and Section-II in separate answer sheet.

Section - I

- 1** Applied question : **10**
A 15-year old boy developed severe watery diarrhoea and effortless vomiting and no fever. The stool collected has a rice watery type appearance. It was sent for bacteriological analysis.
- (a) What is the most likely diagnosis of bacterial infection? **1**
(b) Name bacteria responsible for the clinical condition. **2**
(c) Write the details of laboratory diagnosis to confirm the suspected infection. **7**
- 2** write short notes on: (any two) **10**
- (a) Bacterial growth curve.
(b) Autoclave.
(c) Kirby-Baure Disk diffusion method for antibiotic susceptibility testing.

Section - II

- 3 Write short notes on: (any two) 10
- (a) Anaphylaxis.
 - (b) Immunoglobulin M (IgM).
 - (c) Classical complement pathway.
- 4 Write answer in 2-3 sentences: (any five) 10
- (a) Write 2 contribution of Rober koch.
 - (b) Write 2 examples of Selective media.
 - (c) write 2 differences between active and passive immunity.
 - (d) Write 2 examples of Acid fast organism.
 - (e) Write 2 differences between S .pneumonia and Viridans streptococci.
 - (f) Write 2 media used for isolation of M. tuberculosis.
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