



PM-02012142

Seat No. _____

Second Year M. B. B. S. Examination

July - 2018

Microbiology : Paper - 1

***(General Microbiology + Immunology +
Systemic Bacteriology)***

Time : 2 Hours]

[Total Marks : 40

Instructions :

- (1) Figures on right side indicates full marks.
- (2) Draw the figures wherever necessary.
- (3) Write Section I and II in separated answer sheet.

SECTION – I

- 1 Applied question : 10**
- A 5 year old girl developed sore throat and fever up to 39° for past 2 days with difficulty in swallowing. On examination the pharyngeal mucosa found to be inflamed. The culture of throat swab revealed beta haemolytic pin point colonies.
- (a) What is the most likely etiological agent ? **1**
 - (b) Describe the virulence factors and the other clinical manifestations produced by the etiological agent. **4**
 - (c) Discuss the laboratory diagnosis of the infections caused by this organism. **5**
- 2 Write short notes on : (any two) 10**
- (a) Enzyme - Linked Immunosorbent Assay [ELISA].
 - (b) Immunoglobulin G.
 - (c) Delayed hypersensitivity.

SECTION – II

- 3** Write short notes on : (any **two**) **10**
- (a) Bacterial growth curve
 - (b) Selective media
 - (c) Mutation
- 4** Write short notes on : (any **two**) **10**
- (a) Laboratory diagnosis of tuberculosis
 - (b) WIDAL test
 - (c) Virulence factors of staphylococcus Aureus
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