



RG-020109

Seat No. _____

First Year Post Basic B. Sc. (Nursing) Examination

February - 2019

Microbiology

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (1) Section I and section II are compulsory.
(2) Draw diagrams neatly, wherever necessary.

SECTION - I

1 Long Essays : (Answer Any Two) 2×10=20

- (a) Which is the causative agent of tetanus ? Describe the morphology, modes of transmission and lab. Diagnosis of this agent. How tetanus can be prevented ?
- (b) Enumerate the causative agents of urinary tract infection (UTI). What are the predisposing factors for UTI ? Describe various specimen collection methods. How the specimen is processed in the laboratory ?
- (c) Classify Biomedical wastes. Write methods of segregation, treatment and disposal of Biomedical wastes.

2 Short Essays : (Answer Any Three) 3×5=15

- (a) Hot air oven
(b) Agglutination reactions
(c) Lab. diagnosis of filariasis
(d) Kyasanur forest disease
(e) Shigella

3 Short Answers : (Answer Any One) 1×3=3

- (a) Mycetoma
(b) Rubella

SECTION - II

- 4 Long Essays : (Answer Any **One**) **1×10=10**
- (a) Which is the causative organism of diphtheria ? Describe its morphology, pathogenesis and lab. diagnosis.
 - (b) Enumerate four routes by which hepatitis B virus can spread. Draw a labelled schematic diagram of the virus. Describe briefly on the viral markers that appear during hepatitis B infection and prophylaxis available for the virus.
- 5 Short Essays : (Answer Any **Three**) **3×5=15**
- (a) Autoclave
 - (b) Prevention of hospital acquired infections
 - (c) Type I hypersensitivity reactions
 - (d) Lab. diagnosis of pulmonary tuberculosis
 - (e) Lab. diagnosis of enteric fever
- 6 Short Answers : (Answer All Questions) **2×6=12**
- (a) Candidiasis
 - (b) Gas gangrene
 - (c) Bacterial flagella
 - (d) Cutaneous anthrax
 - (e) Immunoglobulin G
 - (f) Immunity
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