



BCI-020109

Seat No. _____

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

January – 2016

Microbiology

Time : 3 Hours]

[Total Marks : 75

- Instructions :**
- (i) Figure on right indicates full marks.
 - (ii) Draw neat and clean diagram wherever necessary.
 - (iii) Write Section I and Section II in separate answer books.

SECTION - I

- 1 Long essay : (any two) **2×10=20**
- (a) Describe morphology, cultural characteristics, pathogenicity and lab. diagnosis of *Salmonella typhi* infection.
 - (b) Define hypersensitivity. Write in detail Type I hypersensitivity.
 - (c) Write methods of isolation of bacteria in pure culture.
- 2 Write short notes : (any three) **3×5=15**
- (a) Hot air oven
 - (b) Transport media
 - (c) Treatment and disposal of Biomedical waste
 - (d) Immunoglobulin M
- 3 Write in very short : (any one) **1×3=3**
- (a) VDRL test
 - (b) Hanging drop preparation.

SECTION - II

- 1** Long essay : (any one) **1×10=10**
- (a) Enumerate intestinal nematode parasite. Describe life cycle of *Ascarislumbricoides*.
 - (b) Describe morphology and antigens of human Immunodeficiency virus.
- 2** Short essay on : (any three) **3×5=15**
- (a) Pathogenicity of filarial parasite
 - (b) Immunoprophylaxis of polio virus infection
 - (c) Dermatophytes
 - (d) Biosafety practices in hospital.
- 3** Write in very short : (any compulsory) **6×2=12**
- (a) Define 'hospital acquires infection'. Name 2 viral infections associated with hospital acquired infections.
 - (b) Name hosts and mode of infection of malaria parasite.
 - (c) Name 4 organisms causing mycetoma.
 - (d) What is 'window period' in HIV infection ? Which lab test is useful during this period for diagnosis ?
 - (e) Name 2 selective culture media for *Vibrio cholera*.
 - (f) Name 2 methods of sterilization of plastic syringes.
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