

**F. Y. P. B. B. SC. (NURSING) : SUMMER - 2019**  
**SUBJECT: MICROBIOLOGY**

Day: Saturday  
Date: 27/04/2019

**S-2019-4363**

Time: 10.00 A.M. TO 01.00 P.M.  
Max. Marks: 75

**N.B.:**

- 1) All Questions are **COMPULSORY**.
- 2) Figures the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** Answer books.

**SECTION - I**

**Q.1** Write short answer on **ANY FIVE** of the following: **(10)**

- (a) Widal test.
- (b) Modes of transmission of infection.
- (c) Structure of IgM
- (d) Capsule
- (e) Enumerate 4 autoimmune diseases.
- (f) Name 4 bacterial vaccines.
- (g) Significant bacteriuria.

**Q.2** Write short note on **ANY FOUR** of the following: **(16)**

- (a) Define precipitation. Write a note on application of precipitation reaction.
- (b) Gram staining.
- (c) Innate Immunity.
- (d) Laboratory diagnosis of UTI
- (e) Mac- Conkeys Agar media.
- (f) Laboratory diagnosis of syphilis.

**Q.3** Write the long answer on **ANY ONE** of the following:

- (a) Enumerate Acid fast bacilli. **(02)**
- (b) Describe morphology and pathogenicity of *M. leprae*. **(05)**
- (c) Laboratory diagnosis of leprosy. **(05)**

**OR**

- (a) Enumerate anaerobes. **(02)**
- (b) Describe morphology, cultural characteristics and pathogenesis of *Corynebacterium diphtheriae*. **(05)**
- (c) Laboratory diagnosis of diphtheria. **(05)**

**SECTION - II**

**Q.4** Write short answer on **ANY FIVE** of the following: **(10)**

- (a) Polio Vaccine
- (b) Blood agar Media
- (c) Mantoux test
- (d) 4 differences between bacteria and virus.
- (e) Morphological classification of fungi.
- (f) Predisposing factors for fungal infections.
- (g) Define sterilization and disinfection

**P.T.O.**

- Q.5** Write short note on **ANY FOUR** of the following: **(16)**
- (a) Candidiasis
  - (b) Laboratory diagnosis of Giardiasis
  - (c) Dermatophytosis
  - (d) Rabies Vaccine
  - (e) Laboratory diagnosis of shigelosis
  - (f) Laboratory diagnosis of AIDS.

- Q.6** Write the long answer on **ANY ONE** of the following:
- (a) Write 3 Characters of cestodes **(01)**
  - (b) Write life cycle and pathogenicity of Taenia solium. **(05)**
  - (c) Laboratory diagnosis of Taeniasis. **(05)**

**OR**

- (a) Define Nosocomial infection **(01)**
- (b) Discuss sources and modes of its transmission **(05)**
- (c) Write role of Hospital acquired infection control committee. **(05)**

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