

# B.Sc.(N) [Post Basic (1<sup>st</sup> Year)]

BF/2015/08

## Microbiology

[New Scheme-w.e.f. 2007 admission]

**Time : 3 Hours**

**Max Marks : 75**

Note: Attempt all questions.

1A. **Give one word answer of the following:** [1x10=10]

- i. Spores are produced by \_\_\_\_\_.
- ii. Commonest technique of staining bacteria is \_\_\_\_\_.
- iii. Food poisoning is caused by \_\_\_\_\_.
- iv. HIV is caused by \_\_\_\_\_ virus.
- v. The causative organism of syphilis is \_\_\_\_\_.
- vi. Meningococci and gonococci occur as \_\_\_\_\_.
- vii. Production of bacterial cell through spore is called as \_\_\_\_\_.
- viii. Wound infections are caused by \_\_\_\_\_.
- ix. Culture media is sterilized by \_\_\_\_\_.
- x. Mumps are caused by \_\_\_\_\_.

1B. **Pick up the most appropriate answer :** [1x5=5]

- i. Widal test is done to diagnose :  
(a) Tuberculosis (b) Typhoid (c) Syphilis (d) Meningitis
- ii. Sunlight is a natural disinfectant as it contains :  
(a) Alpha rays (b) Beta rays (c) Gamma rays (d) Ultra violet rays
- iii. The important phagocytes of the body are:  
(a) Basophils (b) Erythrocytes (c) Polymorphs (d) Thrombocytes
- iv. Pasteurization of milk was discovered by :  
(a) Robert Koch's (b) Louis Pasteur (c) O.F. Muller (d) Leuwenhoek
- v. Which antibody is abundantly present in our body :  
(a) IgA (b) IgG (c) IgE (d) IgM

2. (a) Define acid fast staining. [2]  
(b) Describe Gram's staining. [3]  
(c) Describe preparation of culture media. [4]  
(d) Describe food poisoning. [6]

3. (a) **Define the following terms :**  
i. Sterilization. [1]  
ii. Nosocomial infection [1]  
(b) Describe Hepatitis B. [8]

4. (a) Define anaerobic bacteria. [1]  
(b) Classify types of bacteria. [3]  
(c) Describe effects of heat and cold in destruction of micro organisms. [6]

5. **Write Short Notes on any FIVE of the following:** [5x5=25]

- (a) Pathogenic Fungi
- (b) Amoebiasis
- (c) Pasteurization of milk
- (d) Bacterial spore
- (e) Anaphylaxis
- (f) Prevention of typhoid fever
- (g) Universal Precautions

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