

B.Sc.(N) [Post Basic (1st Year)]

BF/2016/03

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. The causative organism of Anthrax is _____.
 - ii. Diphtheria is caused by _____.
 - iii. Whooping cough is caused by _____.
 - iv. Rabies is caused by _____.
 - v. Swine flu is caused by _____.
 - vi. Mumps is caused by _____.
 - vii. Painless genital ulcers are caused by _____.
 - viii. Hydatid disease is caused by _____.
 - ix. Black water fever is caused by _____.
 - x. Leishmaniasis is caused by _____.
- 1B. **Pick up the most appropriate answer :** [1x5=5]
- i. Peptidoglycan is major constituent of cell wall of :
(a) Gram positive bacteria (b) Gram negative bacteria (c) Fungi (d) Protozoa
 - ii. Glutaraldehyde is useful for sterilization of :
(a) Cystoscopes (b) Bronchoscopes (c) Thermometers (d) All of the above
 - iii. Which is the commonest mode of transmission of HIV :
(a) Sexual (b) Parenteral (c) Perinatal (d) Oral
 - iv. Which of the following antigens of hepatitis B virus is present in the envelope :
(a) HBsAg (b) HBcAg (c) HBeAg (d) HBsxAg
 - v. Anaphylactic reactions are mediated by which class of Immunoglobulin :
(a) IgE (b) IgM (c) IgA (d) IgD
2. (a) Define Ziehl Neelsen staining. [2]
 (b) Describe the chemical methods of sterilization. [3]
 (c) Zoonotic diseases. [4]
 (d) Discuss in brief about different vaccines. [6]
3. (a) **Define the following terms :**
 i. Disinfection. [1]
 ii. Hospital acquired infections [1]
 (b) Name various antigen- antibody reactions. [8]
4. (a) Anaerobic culture. [1]
 (b) Differential staining. [3]
 (c) Give differences between superficial mycoses & deep mycoses. [6]
5. **Write Short Notes on any FIVE of the following:** [5x5=25]
- (a) Opportunistic fungal infections
 - (b) Ascariasis
 - (c) Bacterial capsule
 - (d) Skin test for immediate hypersensitivity
 - (e) Personal protective equipment
 - (f) Hand hygiene
 - (g) Collection, handling and transportation of throat swab sample