

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

BF/2011/07

## Microbiology

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

M.M. : 75

Time : 3 Hours.

Note: Attempt all questions.

- 1A. **Give one word answer of the following:** [1x10=10]
- i. Gonorrhoeae is caused by \_\_\_\_\_.
  - ii. Mycetoma is caused by \_\_\_\_\_.
  - iii. Kala azar is caused by \_\_\_\_\_.
  - iv. Enteric fever is caused by \_\_\_\_\_.
  - v. Cystoscopes and endoscopes are best sterilized by \_\_\_\_\_.
  - vi. Gas pak is used for \_\_\_\_\_.
  - vii. Pertussis is caused by \_\_\_\_\_.
  - viii. Organ of locomotion in bacteria are known as \_\_\_\_\_.
  - ix. Pulmonary tuberculosis is caused by \_\_\_\_\_.
  - x. Causative agent of blue pus is \_\_\_\_\_.
- 1B. **Pick up the most appropriate answer:** [1x5=5]
- i. Chinese letter arrangement is characteristic of :
 

(a) Corynebacterium diphtheria	(b) Vibrios
(c) Shigella	(d) Salmonella
  - ii. Pneumococcal capsule can be demonstrated by :
 

(a) Quellung reaction	(b) Negative staining
(c) Both of the above	(d) None of the above
  - iii. Which of the following bacteria can cause infective type of food poisoning ?
 

(a) Salmonella enteritidis	(b) Staphylococcus aureus.
(c) Clostridium botulinum	(d) All of the above
  - iv. Which of the following bacteria is/are implicated in hospital-associated respiratory infections?
 

(a) Staphylococcus aureus	(b) Klebsiella.	(c) Enterobacter
(d) All of the above		
  - v. Which of the following vaccines should be administered at the birth of a child.
 

(a) BCG	(b) DPT	(c) Measles.
(d) All of the above		
2. [2]
- (a) Define hepatitis. [2]
  - (b) Route of transmission of hepatitis-B. [3]
  - (c) Laboratory diagnosis of hepatitis-B. [4]
  - (d) Discuss in brief prevention and control of hepatitis-B. [6]
3. [1]
- (a) **Define the following terms :**
    - i. Autoclaving. [1]
    - ii. Pasteurization. [1]
  - (b) Describe the various methods of Sterilization. [8]
4. [1]
- (a) Define Immunity. [1]
  - (b) Enumerate type of Immunity. [3]
  - (c) Discuss in brief about different vaccines. [6]
5. **Write Short Notes on any FIVE of the following:** [5x5=25]
- |                                 |                       |
|---------------------------------|-----------------------|
| (a) Louis Pasteur               | (b) Gram's staining   |
| (c) Precipitation               | (d) Immunoprophylaxis |
| (e) Morphology of bacteria      | (f) Bacterial Toxin   |
| (g) Biomedical Waste Management |                       |