

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

BF/2019/08

Microbiology

Time : 3 Hours

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

Max Marks : 75

Note: 1.) *Attempt all questions.*

2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*

3.) *The Student must write O.P. Code in the space provided on the Title Page of the Answer Book.*

1A. Give one word answer for the following:

[1x10=10]

- i. Name one non sporing anaerobe _____.
- ii. Acid fast staining with 5% H₂SO₄ is done for _____ organism.
- iii. In autoclave, sterilization is done at temperature _____.
- iv. Type II hypersensitivity is also called as _____.
- v. Loeffler's serum slope is a type of _____ medium.
- vi. Full name of JE virus is _____.
- vii. Resolving power of a light microscope is _____.
- viii. Disinfection is defined as: _____.
- ix. Endemic Typhus is caused by _____.
- x. Scientific name of pinworm is _____.

1B. Pick up the most appropriate answer:

[1x5=5]

- i. Gram positive cocci causing scarlet fever are:
(a) Staphylococcus (b) Bacillus (c) Clostridium (d) Bacteroides.
- ii. Disease transmitted by Mites is:
(a) Syphilis (b) Scrub typhus (c) Anthrax (d) Polio
- iii. Father of Chemotherapy is:
(a) Louis Pasteur (b) Robert Koch (c) Paul Ehrlich (d) Edward Jenner
- iv. Antibiotic which acts on ribosomes is:
(a) Penicillin (b) Tetracycline (c) Vancomycin (d) Cephalosporin
- v. Fish tape worm is:
(a) Strongyloides (b) Schistosomes (c) Diphyllbothrium (d) Trichura trichuris

2. Describe Briefly:

[5x3=15]

- (a) Ascariasis
- (b) laboratory diagnosis of syphilis
- (c) Candidiasis

3. Describe pathogenesis and laboratory diagnosis of infection caused by *Corynebacterium diptheriae*; [10]

4. (a) Define Antigen and antibody.

[3]

(b) Agglutination reactions

[7]

5. Write Short Notes on any **FIVE** of the following:

[5x5=25]

- (a) Hospital Infection Control
 - (b) Virulence factors of Streptococcus
 - (c) Dengue Virus Infection
 - (d) Diagnosis of Amoebiasis
 - (e) Disinfectants
 - (f) Collection and Transport of Blood Samples
 - (g) Live Viral Vaccines
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