

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

BF/2012/08

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. Incubation period for Polio Virus is _____ days.
 - ii. Father of bacteriology is _____.
 - iii. German measles is also known as _____.
 - iv. Enteric fever is caused by _____.
 - v. Tuberculosis is caused by _____.
 - vi. Cold chain for vaccine is maintained at _____ °C.
 - vii. Disposable syringes are best sterilized by _____.
 - viii. Hepatitis B is a _____ type of virus.
 - ix. Mode of transmission of Hookworm is _____.
 - x. Q fever is caused by _____.
- 1B. Pick up the most appropriate answer:** [1x5=5]
- i. Vaccine creates the immunity.

(a) Active	(b) Passive
(c) Both (a) and (b)	(d) None of the above
 - ii. Following are the types of immunoglobulins :

(a) IgA	(b) IgG
(c) IgB	(d) Both (a) and (b)
 - iii. Gram Positive bacteria's cell wall not having following characters :

(a) Presence of Teichoic acid.	(b) Absent of periplasmic space.
(c) Thicker wall.	(d) Peptidoglycan 2 nm.
 - iv. Following vaccine is contra-indicated in immuno-suppressive patient :

(a) Live Vaccine.	(b) Killed Vaccine
(c) Both (a) and (b)	(d) None of the above
 - v. Endotoxins having following characteristics :

(a) Heat Stable	(b) Heat labile.
(c) Very high potency	(d) Enzymic in action.
2.

2.	(a) Define Culture Media.	[2]
	(b) Types of Media.	[3]
	(c) Culture methods.	[4]
	(d) Collection, handling and transportation of various specimens.	[6]
3.

3.	(a) Define the following terms :	
	i. Gram Staining.	[1]
	ii. Acid fast Staining.	[1]
	(b) Describe the chemical methods of Sterilization.	[8]
4.

4.	(a) Define Immunity.	[1]
	(b) Classify Immunity.	[3]
	(c) Discuss in brief about Acquired Immunity.	[6]
5. **Write Short Notes on any FIVE of the following:** [5x5=25]
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| (a) Hanging drop preparation. | (b) Nosocomial Infection. |
| (c) Laboratory diagnosis of mycotic infection. | (d) Antigen and Antibody reaction. |
| (e) Food Poisoning. | (f) Diagnosis of parasitic infection. |
| (g) Rickettsiae. | |