



**BRAINWARE UNIVERSITY**  
**Term End Annual Examination 2021 – 22**  
**Programme – Bachelor of Science in Nursing**  
**Course Name – Microbiology**  
**Course Code – BNS105**  
 (Year – I)

**Time allotted: 3 hrs.**

**Full Marks: 75**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

**Section – A**

- 1. Write short answer type questions of the following: 5 x 1 = 5**
- (I) WIDAL test [5]
- OR**
- (II) Hypersensitivity. [5]
- 2. Write long answer type question of the following: 10 x 2= 20**
- (I) Write three differences between sterilization and disinfection. [3+3+4]  
 Name different disinfectants commonly used in clinical practice.  
 How would you sterilize the following items?  
 i) Surgical Linen ii) Rubber gloves.
- (II) What do mean by nosocomial infections?  
 What are the symptoms?  
 Name three micro-organisms responsible for nosocomial infection and mention the disease caused by them. [3+4+3]
- 3. Write long answer type questions of the following: 15 x 1= 15**
- (I) a) What are the routes of transmission of HIV / AIDS. [3+3+5+4]  
 b) What is 'window period'?  
 c) What are the laboratory tests available for diagnosis of HIV / AIDS.  
 d) How the transmission of HIV /AIDS can be prevented
- (II) **OR**
- a) What is Immunity?  
 b) Write down the National Immunization Schedule of India. [2+6+7]  
 c) Why and how cold chain chain system for vaccines is maintained

**Section –B**

**4. Write short answer on any *three* of the following: 5 x 3 = 15**

- (I) Live attenuated vaccine [5]
- (II) PPE [5]
- (III) Mantoux Test [5]
- (IV) National Immunization Programme [5]
- (V) Opportunistic infection [5]

**5. Write long answer of the following: 10 x 2= 20**

- (I) What do you mean by pathogenic micro-organisms? [2+8]

What are the different methods of identification of pathogenic micro-organisms?

- (II) Define parasites. [2+5+3]

What are the different types of parasites?

Write in brief about ectoparasites.

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