

INTERNAL EXAMINATION
JANUARY – 2026
BACHELOR OF PHYSIOTHERAPY
THIRD SEMESTER

Course Name: Microbiology

Course Code: BPT-117

Date: 17/01/2026

Time: 11:00 am to 12:00 pm

Total Marks: 30

Instructions:

1. Examinees must bring their ID card every day.
2. Read the questions carefully.
3. You must not talk to, attempt to communicate with or disturb another candidate.
4. Possession of a mobile phone and any other material is prohibited.

A. Multiple Choice Questions (All compulsory)

(6x 1 = 6)

- Write down the one correct answer for MCQ in supplementary.

1. Normal flora helps the host by all EXCEPT:

- a. Vitamin synthesis
- b. Prevention of pathogen colonization
- c. Stimulating immune system
- d. Causing disease under normal conditions

2. The -shaped bacteria are called:

- a. Cocci
- b. Vibrio
- c. Bacilli
- d. Spiral

3. Which test is based on antigen–antibody interaction?

- a. ELISA
- b. Precipitation reaction
- c. Agglutination reaction
- d. All of above

4. The ability of an antigen to induce immune response is called:

- a. Immugenecity
- b. Antigenicity
- c. Specificity
- d. Affinity

5. A 22-year-old college student presents with fever, malaise, nausea, and jaundice. He gives a history of drinking contaminated water at a roadside stall 4 weeks ago. Liver enzymes are elevated. The disease is self-limiting. What is the mode of transmission in this case?

- a. Sexual contact
- b. Faeco-oral route
- c. Blood transfusion
- d. Vertical transmission

6. Which of the following is a common cause of opportunistic infection?

- a. Good Nutrition
- b. Immunosuppression
- c. Vaccination
- d. Strong Immunity

B. Write Short notes (Any Two)

1. Define the terms: a) Vector b) Pandemic Disease
2. Give the difference between Humoral and Cell Mediated Immunity.
3. Enlist the symptoms and transmission associated with respiratory infection.

C. Write Short notes (Any Two)

1. Define Sterilization and Disinfection and give working principle, uses of Autoclave in detail.
2. What is hypersensitivity reaction? Explain Type 1 and Type 2 Hypersensitivity.
3. What are the general symptoms of UTI? Write different collection methods of urine sample in detail.

D. Write Long notes (Any One)

1. Draw and label the structure of Antibody and explain different types of antibodies in detail.
2. Explain the laboratory diagnosis and different stages of malaria parasite with appropriate Diagram of the life cycle.