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**AB-234743**

**M.Sc. (Semester-II) Examination, June-2025**

**( Backlog )**

**MICROBIOLOGY**

**( Medical Microbiology )**

***Time Allowed : Three Hours***

***Maximum Marks : 70***

**Note :** This question paper is divided into four sections.  
Attempt questions of all four sections as per given  
direction. Distribution of marks is given in each  
section.

**SECTION-A**

**( Objective Type Questions )**

**Note :** Attempt **any ten** questions. Each question carries 1  
mark. [10x1=10]

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**( 1 )**

**[P.T.O.]**

1. (A) Fill in the blanks :

- (i) The viral capsid is made up of \_\_\_\_\_.
- (ii) In HIV infected persons, the virus kills \_\_\_\_\_ cells.
- (iii) African sleeping sickness is caused by \_\_\_\_\_.
- (iv) Hospital acquired infections are called \_\_\_\_\_.
- (v) Infection caused by any fungus that invades the tissues causing disease is called \_\_\_\_\_.

(B) Multiple Choice Questions :

- (vi) Which of the following microorganism is a predominant flora of the skin?
  - (a) B. Anthracis
  - (b) Clostridium perfringens
  - (c) Leptospira interrogans
  - (d) Staphylococcus epidermidis

- (vii) The predominant coliform bacteria in the human GI tract :

- (a) Bacillus cereus
- (b) Vibrio cholerae
- (c) Lactobacillus acidophilus
- (d) Escherichia coli

- (viii) Which of the following vectors is responsible for transmitting the parasite causing filariasis?

- (a) Anopheles mosquito
- (b) Aedes mosquito
- (c) Tse Tse fly
- (d) Culex mosquito

- (ix) Antibiotics are used to treat infections caused by :

- (a) Bacteria
- (b) Virus

- (c) Both (a) and (b)
- (d) None of the above

(x) Coccidiomycosis is called :

- (a) death fever
- (b) valley fever
- (c) black fever
- (d) yellow fever

(xi) Which of the following helminth enters the body of a person through the skin of feet when walks barefoot in the contaminated soil?

- (a) Ascaris
- (b) Ancylostoma
- (c) Schistosoma
- (d) Wucheria

(xii) Animals that are routinely infected with a protozoa or a parasite are termed as :

- (a) Definitive host

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- (b) Intermediate host
- (c) Reservoir host

(d) Parasitic host

(xiii) Degree of pathogenicity is referred to as :

- (a) infection
- (b) virulence
- (c) avirulent
- (d) attenuated

#### SECTION-B

#### (Very Short Answer Type Questions)

**Note :** Attempt **any five** questions. Each question carries 2 marks. (Word limit : 25-30 words) [5×2=10]

2. (i) Name two diseases caused by Protozoa.

(ii) Define Infection.

(iii) Name two antifungal agents.

(iv) What is HIV?

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[P.T.O.]



- (v) What is a Parasite?
- (vi) What is meant by subcutaneous Mycoses?
- (vii) What is Pathogenesis?

### SECTION -C

#### (Short Answer Type Questions)

**Note :** Attempt **any five** questions. Each question carries 4 marks. (Word limit : **250** words) [5×4=20]

3.
  - (i) Write short note on bacterial invasion.
  - (ii) Write briefly on normal microbial flora of human body.
  - (iii) Explain the role of enzymes and toxins in pathogenesis.
  - (iv) What are Dermatophytes? Explain.
  - (v) Explain Blastomycosis.
  - (vi) Write note on antiviral therapy.
  - (vii) Describe briefly hospital acquired infections.

### SECTION -D

#### (Long Answer Type Questions)

**Note :** Attempt **any three** questions. Each question carries 10 marks. (More than **500** words) [3×10=30]

4.
  - (i) What are nosocomial infection? Explain common type of nosocomial infection and their control.
  - (ii) What is Mycoses? Explain systemic mycoses in detail.
  - (iii) Describe the structure and classification of Pox virus.
  - (iv) Write a detailed note on classification of pathogenic viruses.

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