

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN NURSING**

NURS 226: MEDICAL VIROLOGY AND MYCOLOGY

STREAMS: BSC (NURS) Y1S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 16/04/2025

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- **ANSWER ALL QUESTIONS IN SECTION A AND B, AND ANY OTHER TWO IN SECTION C**
- **ALL ANSWERS IN THE BOOKLET**

SECTION A-MULTIPLE CHOICE QUESTIONS (10 MARKS)

1. What is the name of fungal infection in human beings?
 - A. Mycosis
 - B. Fungosis
 - C. Mucorsis
 - D. None of these.
2. For 'ringworm' causative agent is ...
 - A. Myeloma
 - B. Histoplasma
 - C. Epidermatophyton
 - D. None of this.
3. Immunocompromised persons normally suffer from several fungal diseases. Which of the following fungi is highly associated with immunosuppression?
 - A. Cryptococcus neoformans
 - B. Aspergillus fumigatus
 - C. Malassezia furfur
 - D. Mucor species

4. Which of the following phase determines the specificity of the virus?
 - A. Penetration
 - B. Attachment
 - C. Release
 - D. Uncoating

5. The following may be useful for prognostic purposes in HIV-infected individuals
 - A. HIV-p24 antigen
 - B. Reverse transcriptase enzyme
 - C. HIV-p17
 - D. HIV viral load

6. The virus that can transmitted from animals to humans is?
 - A. Rabies Virus
 - B. Human papilloma virus
 - C. Epstein–Barr virus (EBV)
 - D. Hepatitis B virus (HBV)

7. Which of the following fungi causes vaginal thrush?
 - A. Candida tropica
 - B. Loba Lobi.
 - C. Candida albicans
 - D. Aspergillus fumigatus

8. Hepatitis BsAg virus is associated with?
 - A. Infectious mononucleosis
 - B. Kaposi sarcoma
 - C. Nosopharyngeal carcinoma
 - D. Hepatocellular carcinoma

9. Aspergillus normally lives in ...
 - A. Soil & amp; Grains
 - B. Water
 - C. Streams
 - D. Mud

10. Fungi are categorized into two type's i.e. ...

- A. Bugs and yeast
- B. Yeast and ticks
- C. Molds and yeast
- D. Algae and yeast

SECTION B: ANSWER ALL THE QUESTIONS

1. a. List **FIVE** differences between Viruses and Bacteria (5 marks)
- b. outline **FOUR** examples of specimen used for fungal diagnosis. (4 marks)
- c. state **THREE** ways in which Fungi can be classified (3 marks)
- b. List **FIVE** types of Ringworms or Tinea infections (5 marks)
- e. Highlight **THREE** ways in which viruses can be classified (3 marks)

SECTION C: ANSWER ONLY TWO QUESTIONS

1. Discuss the transmission, pathogenesis, clinical symptoms, prevention and treatment of human papilloma virus. (20 marks)
 2. Classify the common antifungal agents, giving examples of each (20 marks)
 3. Discuss the transmission, pathogenesis, clinical symptoms, prevention and treatment of Rabies virus (20 marks)
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