



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST) UNIVERSITY EXAMS

SCHOOL OF NURSING, MIDWIFERY AND PARAMEDICAL SCIENCES

MAIN CAMPUS

END OF TRIMESTER EXAMS 2021/2022 ACADEMIC YEAR

FOR THE DEGREE OF MIDWIFERY

COURSE CODE: NMM 225 LECTURER: DR. STEFFI SCHATZ

COURSE TITLE: VIROLOGY AND MYCOLOGY

DATE: 13TH OF APRIL 2023 TIME: 3-6 PM

INSTRUCTIONS TO CANDIDATES

ALL QUESTIONS IN THE THREE SECTIONS (A, B AND C) ARE

COMPULSORY

DURATION: 3 Hours

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SECTION A: MULTIPLE CHOICE QUESTIONS (MCQs); 20 MARKS

Choose the most appropriate answer

- 1. The genetic material of a virus is composed of
 - A) DNA
 - B) RNA
 - C) DNA or RNA
 - D) DNA and RNA
- 2. The Baltimore classification of Viruses is based on
 - A) The morphology
 - B) The size
 - C) The manner of the synthesis of the m-RNA
 - D) The appearance in a stain
- 3. What are Herpes viruses?
 - A) Single stranded DNA Virus
 - B) Double stranded DNA Virus
 - C) Single stranded RNA virus
 - D) Single stranded RNA reverse transcriptase Virus
- 4. Which Baltimore class is Corona virus?
 - A) 1
 - B) III
 - C) V
 - D) IV
- 5. What does REO-Virus mean?
 - A) Respiratory- enteric-orphan Virus
 - B) Reorganized Virus
 - C) Enterovirus
 - D) None of the above
- 6. HI- Virus is a...
 - A) Reovirus
 - B) Retrovirus
 - C) Picornavirus
 - D) Togavirus
- 7. Which of the following Virus contains a single stranded DNA?
 - A) Herpes virus
 - B) Poxvirus
 - C) Adenovirus
 - D) Parvovirus
- 8. Which part of the human body is mostly affected by Varicella Zoster Virus?
 - A) Respiratory System
 - B) Genital system
 - C) Skin
 - D) CNS

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- 9. Which of the following Viruses causes an inflammation of the liver?
 - A) HBC
 - B) HIV
 - C) Papilloma Virus
 - D) Herpes Virus
- 10. A Virus which causes an effect called "mononucleosis" is called..
 - A) Epstein Barr Virus
 - B) Parvovirus
 - C) Rotavirus
 - D) HIV
- 11. Which applies for Fungi's? They are...
 - A) Eukaryotes
 - B) Prokaryotes
 - C) Animals
 - D) Archaebacteria
- 12. What is the reservoir of Blastomyces dermatidis?
 - A) Soil
 - B) Standing water
 - C) Fomites
 - D) Herbivores
- 13. What is Aspergillus?
 - A) A yeast
 - B) A mold
 - C) A virus
 - D) A bacterium which supports a fungicidal infection
- 14. Which of the following statement is right?
 - A) Infections with fungi's are mostly affecting immune compromised patients
 - B) Infections with fungi's are highly infectious
 - C) Infections with fungi's are simple to treat
 - D) Infections with fungi's causing a lifelong immunity
- 15. An infection with Blastomyces dermatididis can be treated with...
 - A) Amphotericin B
 - B) Acyclovir
 - C) Tetracycline
 - D) Ampicillin
- 16. Which parts of the body can be affected by Candida?
 - A) The mouth cavity
 - B) The genital organs
 - C) The mouth cavity and the genital organs
 - D) The respiratory system
- 17. Onychomycosis is a disease which affects
 - A) The skin
 - B) The nails
 - C) The gastrointestinal system
 - D) The genital system
- 18. Which fungi infections should be treated systemically?

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- A) Tinea corpora
- B) Tinea cruris
- C) Tinea capitis
- D) Candidiasis
- 19. What does probiotic means?
 - A) Preventive treatment of intestinal tract infections by the use of fungi's
 - B) A type of antibiotic
 - C) A drug against fungi's
 - D) The preform of an antibiotic
- 20. How can Viruses be identified?
 - A) With the microscope
 - B) With a stain procedure
 - C) Via PCR test
 - D) With the naked eye

SECTION B: SHORT ANSWER QUESTIONS (SAQS); 40 MARKS Answer all the questions

1.	Eplain the term "Virus"!	4 marks
2.	Explain the phases of the life cycle of a virus!	8 marks
3.	Explain the components of a virus by using a drawing!	8 marks
4.	Describe how viruses can be identified?	8 marks
5.	Explain the term "fungus"!	4 marks
6.	Draw and explain the structure of fungis!	8 marks

<u>SECTION C: LONG ANSWER QUESTIONS (LAQS); 40 MARKS Answer all the questions</u>

- A) Describe unspecific clinical symptoms of the infection with a virus and explain which parts
 of the body can be affected by viral infections. Name 3 examples for viruses and their
 specific diseases!
 - B) Explain the type, the structure, the transmission and the clinical signs of an infection with the HI-virus! 10 marks
- A) Describe "Candidiasis" and explain clinical features, affected parts of the body and effective treatments methods!
 - B) Describe the pathogenesis of an infection with Dermatophytes, different types of diseases and the treatment procedures! 10 marks

END

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