



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)S**

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND TRIMESTER EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN OCCUPATIONAL
HEALTH AND SAFETY**

COURSE CODE: NCO 126

COURSE TITLE: COMMUNICABLE DISEASES

DATE: 09/04/2024 TIME: 3 - 6 pm

INSTRUCTIONS TO CANDIDATES

This paper consists of three sections a, b and c

Answer all questions

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over 

SECTION "A" 20 MCQ questions (20 Marks)

1. The correct sequence of the infective chain in communicable diseases is
 - a) Agent- reservoir- portal of entry- mode of transmission- portal of exit- host
 - b) Mode of transmission-agent- reservoir- host- portal of entry - portal of exit
 - c) Agent- reservoir- portal of exit- mode of transmission- portal of entry- host
 - d) Reservoir - mode of transmission -agent- portal of exit- portal of entry- host
2. **Dengue** and **Chikungunya** viral infections are the most common NTDs prevalent in many parts of the world, these two infections are transmitted to humans by the bite of which of the following vector?
 - a) Anopheles spp mosquitoes
 - b) Aedes aegypti mosquitoes
 - c) Tsetse fly
 - d) Hyalomma spp ticks
3. On community visit you meet a lady complaining of itchy, sore throat with a whitish coat in the mouth extending to the throat, history points to a sexual transmitted disease. Which of the following is the diagnosis?
 - a) Syphilis
 - b) Chlamydia
 - c) Gonorrhoea
 - d) Trichomoniasis
4. Which of the following diseases is transmitted through food and water?
 - a) Tetanus
 - b) Hepatitis A
 - c) Hepatitis B
 - d) Influenza
5. Which of the following is not a pathogen?
 - a) Streptococcus
 - b) Prion
 - c) Cryptococcus neoform
 - d) Plasmodium
6. Which of the following is a re-emerging disease?
 - a) Ehrlichiosis
 - b) Mycetoma
 - c) Chikungunya
 - d) Tuberculosis

7. Which of the following infectious disease is a source of childhood respiratory infections in the Netherlands?
 - a) Human metapneumovirus
 - b) *Borrelia hermsii*
 - c) Norwalk-like caliciviruses
 - d) *Toxoplasma gondii*
8. Identify a potential group III bioterrorism agent among the list below.
 - a) *Streptococcus* group A
 - b) *Coccidioides immitis*
 - c) *Clostridium botulinum* toxin
 - d) *Borrelia hermsii*
9. The following is a sexually transmitted disease caused by parasite?
 - a) *Shigella*
 - b) *Chlamydia*
 - c) Syphilis
 - d) Trichomoniasis
10. A client who presented with a very painful blister wound of the shin after trying to open it up with a pin is likely to be suffering from
 - a) Gonorrhoea
 - b) Dracunculiasis
 - c) Chaga's disease
 - d) Buruli ulcer
11. Identify an infection that is not curable by antibiotics among the following.
 - a) Hepatitis A
 - b) *chlamydia*
 - c) Syphilis
 - d) Trichomoniasis
12. Which of the following are the typical signs of monkey pox fever?
 - a) Skin rash and lymphadenopathy
 - b) Hard crusted skin lesion and red urine
 - c) Back pain and bleeding gums
 - d) Muscle aches and pains behind the ears
13. Which of these is a health problem that can **NOT** be caused by STIs in women?
 - a) Pelvic inflammatory disease (PID)
 - b) Ectopic pregnancy
 - c) Higher risk for cervical cancer
 - d) Disseminated blood coagulation

14. The aetiological agent of trichomoniasis is
 - a) Virus
 - b) Bacteria
 - c) Parasite
 - d) Fungi
15. HPV is an abbreviation for
 - a) Human immunodeficiency virus
 - b) Human papilloma virus
 - c) Hepatitis virus
 - d) Hepatitis vaccine
16. Which of the following is the most common STI caused by virus?
 - a) Gonorrhea
 - b) Syphilis
 - c) Chlamydia
 - d) Genital warts
17. The male gender is likely to suffer from an infectious disease from a family member than the female gender
 - a) True
 - b) False
18. Mary a 35 year old Kilifi resident present in a health facility complaining of; bleeding gums, severe abdominal pains, lymphadenopathy and pain behind the ears. Which condition are we likely to investigate for?
 - a) Onchocerciasis
 - b) Dengue
 - c) Chikungunya
 - d) Syphilis
19. Which of the following is not a vector borne disease?
 - a) Dengue
 - b) Malaria
 - c) Filaria
 - d) Polio
20. From the social perspective of gender roles, which gender is more likely to suffer from lung cancer?
 - a) Male
 - b) Female
 - c) Both gender
 - d) None of the above

Short Answer Questions

1. Discuss yaws (8 marks)
2. Explain the **four (4)** typical stages of Buruli ulcer (8 marks)
3. Describe the **three (3)** stages of whooping cough (8 marks)
4. Differentiate between syphilis and gonorrhoea (8 marks)
5. Describe the life cycle of schistosomiasis (8 marks)

Long Answer Questions

1. Discuss the general prevention and control of infectious diseases using the chain of infection (20 marks)
2. Discuss gender aspects of communicable diseases under:
 - a) Social factors (10 marks)
 - b) Behavioural factors (10 marks)

