



# UNIVERSITY

# UNIVERSITY EXAMINATIONS SECOND YEAR EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE (NURSING)

NURU 277: INFECTIOUS AND VECTOR-BORNE DIS	SEASE	1
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STREAMS: BSc Nursing (Y2T3) TIME: 2 HOURS

DAY/DATE:.....

## **INSTRUCTIONS:**

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are NOT allowed in the examination room.
- The paper has THREE sections. Answer ALL questions.
- Answers for SECTION I should be on first page of the answer booklet.
- Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet

### Part I: MCQS (20 marks)

- 1. The following is true about abortive poliomyelitis
  - a. Non-specific type of illness with brief influenza like symptoms during polio epidemic
  - b. There is spontaneous pain on the back and sometimes on the abdomen
  - c. The patient may have difficulties in passing urine
  - d. There may be muscle fasciculation
- 2. The following host factors are significant in the spread of influenza EXCEPT
  - a. Extremes of age
  - b. Human mobility
  - c. Change in weather conditions
  - d. Occupation

- 3. Which of the following statements about the Avian flu is most accurate?
  - a. Most Avian influenza viruses infect humans
  - b. It has pandemic potential
  - c. It is endemic
  - d. Controlling the disease in humans is the first step in prevention
- 4. A disease is pandemic if
  - a. Many persons acquire it over a short period
  - b. Is always present in a population
  - c. Occurs occasionally in a population
  - d. Arises from a single definable source and affects many people
- 5. The organism that causes chancroid is
  - a. Treponema pallidum
  - b. Haemophillus ducreyi
  - c. Chlamydia trachomatis
  - d. Lymphogranuloma venerium
- 6. Category 2 TB patients include those who
  - a. Are newly diagnosed, have never been treated for PTB, are smear positive
  - b. Have been previously treated for PTB, relapse cases, are smear positive
  - c. Have been previously treated for PTB, default cases, are smear negative
  - d. Have been previously diagnosed, treatment failures, are smear negative
- 7. Zoonotic diseases include:
  - a. Brucellosis, amoebiasis and anthrax
  - b. Brucellosis, anthrax and rabies
  - c. Anthrax, rabies and SARS
  - d. Anthrax, tetanus and Avian flu
- 8. Which of the following is an enzoonotic disease?
  - a. Hydatidosis
  - b. Teaniasis
  - c. Amoebiasis
  - d. Filariasis
- 9. Prepatent period is
  - a. Period in susceptible host between entry of infectious agent and onset of initial symptoms
  - b. Period in susceptible host between exit of infectious agent and detection of the same in the vector
  - c. Period from onset of symptoms to recovery
  - d. Period in susceptible host between entry of infectious agent and detection of the same in blood
- 10. An example of a communicable disease that has transovarian transmission is

- a. Yellow fever
- b. Bacillary dysentery
- c. Schistosomiasis
- d. Teaniasis
- 11. Malignant tertian malaria is caused by
  - a. Plasmodium vivax
  - b. Plasmodium ovale
  - c. Plasmodium malariae
  - d. Plasmodium falciparum
- 12. Scabies infection of the skin caused by Sarcoptes scabie is an example of
  - a. water borne disease
  - b. water washed disease
  - c. water based disease
  - d. water related disease
- 13. An outbreak of jaundice occurs in several children who attend the same day care centre. If the outbreak was caused by a virus, which of the following is the most likely cause?
  - a. Hepatitis A
  - b. Hepatitis B
  - c. Hepatitis C
  - d. Hepatitis D
- 14. Each of the following statements is correct EXCEPT
  - a. Mumps virus is a single stranded RNA genome
  - b. Meningitis is a recognized complication of mumps
  - c. Mumps orchitis in children before puberty causes sterility
  - d. During mumps the virus spread through bloodstream to various internal organs
- 15. Which of the following statements is CORRECT about poliovirus?
  - a. Congenital infection of the fetus is an important complication
  - b. The virus replicates extensively within the gastrointestinal tract
  - c. A skin test is used to determine prior exposure
  - d. Retroviral therapy shortens the duration of infection
- 16. The sum total of body mechanisms that interpose barriers to the invasion or multiplication of infectious agents, or to damage by their toxic products is called
  - a. Innate immunity
  - b. Resistance
  - c. Transmissibility
  - d. Herd immunity
- 17. The following are objectives of disease surveillance. Which one is NOT?
  - a. Provide information on disease trends
  - b. Provide feedback
  - c. Provide early warning
  - d. Restrict movement of carriers

- 18. Which of the following is NOT a contact disease?
  - a. Cholera
  - b. Acute bacterial conjunctivitis
  - c. Pediculosis
  - d. Tinea capitis
- 19. The disease transmitted by the vector *Xenophyila philorexa* and *Xenophyila brasiliensis* is:
  - a. Yellow fever
  - b. Trypanosomiasis
  - c. Plague
  - d. Leishmaniasis
- 20. A protozoal infection which the gastro-intestinal tract is the portal of entry is
  - a. Anthrax
  - b. Botulism
  - c. Girdiasis
  - d. Taeniasis

#### Part II: SHORT ANSWER QUESTIONS (30 marks)

- 1. List six (6) factors that promote development and spread of communicable diseases (3 marks)
- 2. Describe any 3 components in Covid 19 outbreak control program (6 marks)
- 3. State five (5) environmental factors that favor the spread of polio (5 marks)
- 4. Using the epidemiological triangle, describe prevention and control program for pulmonary tuberculosis (6 marks)
- 5. Describe five (5) approaches that can be adopted in prevention and control of food poisoning (5 marks)
- 6. With examples on specific responses, describe five(5) control and prevention measures for contact diseases (5 marks)

#### Part III: LONG ANSWER QUESTION (20 marks)

- 1. Malaria is holoendemic in the Nyanza region
  - a. Define the term holoendemic (1 mark)
  - b. Using Leavell's Levels of Prevention, describe the measures you will put in place for malaria control and prevention program (16 marks)
  - c. State three complications of malarial infection (3 marks)