CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF

BACHELOR OF SCIENCE (NURSING)

NURS 375: INFECTIOUS AND VECTOR-BORNE DISEASES

STREAMS: BSc Nursing (Y3S1) TIME: 3 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 1TB 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 (40 marks)

- 1. Using the six links of communicable diseases, describe the prevention and control of measles (9 marks)
- 2. State six (6) factors that promote development and spread of communicable diseases (4 marks)
- 3. Describe any 3 components in cholera outbreak control program (6 marks)
- 4. State five (5) environmental factors that favor the spread of polio (5 marks)
- 5. Using the epidemiological triangle, describe prevention and control program for pulmonary tuberculosis (6 marks)
- 6. Describe five (5) approaches that can be adopted in prevention and control of yellow fever (5 marks)
- 7. With examples on specific responses, describe five(5) control and prevention measures for Covid-19 (5 marks)

Part III: LONG ANSWER QUESTION (40 marks)

- 1. In June 2019 there were concerns that there was a case of ebola in the Kenyan riftvalley.
 - a. List four (4) signs and symptoms of hemorrhagic fevers(4marks)
 - b. Using Leavell's Levels of Prevention, describe the measures you will put in place for ebola control and prevention program (16 marks)
- 2. With examples, describe the prevention and control of zoonotic diseases using epidemiologic triad perspective (20 marks)

END