



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

**MAIN CAMPUS  
SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
PARAMEDIC SCIENCE**

**COURSE CODE: NPP 327  
COURSE TITLE: EMERGENCY MEDICAL SERVICES AND  
PUBLIC HEALTH**

**DATE: 21<sup>ST</sup> APRIL 2022**

**TIME: 11:30 – 2:30 PM**

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**INSTRUCTIONS TO CANDIDATES**

All questions in the three sections (A, B and C) are compulsory

**DURATION: 3 Hours**

Answer all questions on the booklet provided

MMUST observes ZERO tolerance to examination cheating

**SECTION A: MULTIPLE CHOICE QUESTIONS**

**(20 Marks)**

*Choose the most appropriate answer*

1. According to C.E. Winslow, which of the following is the goal of Public Health?
  - A. For people to attain their birthrights and longevity
  - B. For promotion of health and prevention and diseases
  - C. For people to have access to basic health services
  - D. For people to be organized in their health efforts
  
2. The core public health function that determines “what will be done.” Is referred to:
  - A. Assessment.
  - B. Surveillance.
  - C. Advocacy.
  - D. Policy development
  
3. The formal system of arrangement where community members come together to address their own problems, needs and concerns at a given point of time is referred to as;
  - A. Community mobilization
  - B. Community empowerment
  - C. Community participation
  - D. Community organisation
  
4. Which level of disease prevention is correct when a community nurse teaches a client to adhere to treatment as prescribed at home?
  - A. Primary level
  - B. Secondary level
  - C. Tertiary level
  - D. All the above
  
5. Community based health care is a component of traditional medicine whose aim is to;
  - A. Provide curative medicine
  - B. Provide health education
  - C. Prevent disease occurrence
  - D. Diagnose the disease outbreak
  
6. The level of community dialogue where there is the establishment of coalition to champion the issues and concerns that affect the health and welfare of people is referred to as;
  - A. Level 1 health facility
  - B. Level 6 health facility
  - C. Level 1 and Level 2 facilities
  - D. Level 1 and Level 6 facilities

7. The act of giving community people power and the right to make decisions on what affects them is referred to as;
  - A. Decentralisation
  - B. Primary Health Care Services
  - C. Community Capacity building
  - D. Community empowerment
  
8. A two-way process communication that involves the critical analysis and in-depth understanding of issues and concerns in the community is referred to as;
  - A. Health promotion
  - B. Community dialogue
  - C. Community diagnosis
  - D. Community survey
  
9. In which of the following year was Alma Alta declaration passed?
  - A. 1798
  - B. 1977
  - C. 1987
  - D. 1978
  
10. The number of people developing a new disease during a specified time period per 1000 population in a given community is termed as;
  - A. Pandemic
  - B. Eradication
  - C. Incidence
  - D. Epidemic
  
11. A disability that limits fulfilment of a role that is normal for an individual is termed as;
  - A. Impairment
  - B. Handicap
  - C. Mental disability
  - D. Disability
  
12. Which of the following is a primary method of disease prevention?
  - A. Mass screening
  - B. Good health behaviours
  - C. Littering of rubbish
  - D. Safe water supply
  
13. The type of immunity one gets following massive community immunisation is called;
  - A. Herd immunity
  - B. Innate immunity
  - C. Humoral immunity
  - D. Natural passive immunity

14. Anal pruritus is a common symptom of worm infestation called?
- A. Hook worm
  - B. Round worm
  - C. Tape worm
  - D. Thread worm
15. Which of the following infectious disease is most notifiable at the national level?
- A. Typhoid
  - B. Measles
  - C. Haemophilia Type B
  - D. Pneumonia
16. The time of period between entering of a pathogen into the body and the appearance of symptoms of diseases is called
- A. Incubation period
  - B. Adoption period
  - C. Latent period
  - D. Natural history of a disease
17. Which of the following diseases is **NOT** transmitted through airborne?
- A. Measles
  - B. Chicken pox
  - C. Yellow Fever
  - D. Rubella
18. Which of the following is not a leadership style exercised in the community?
- A. Democratic
  - B. Autocratic
  - C. Participative
  - D. Laissez faire
19. This approach to health promotion aims to improve and promote health by addressing socioeconomic and environmental determinants of health within the community.
- A. Behaviour change approach
  - B. Community development approach
  - C. Biomedical approach
  - D. Behaviourist approach
20. When you want to know how many people died from COVID -19 disease from all people have suffered from COVID-19, which formula do you use to calculate?
- A. Crude death rate
  - B. Case fatality rate
  - C. Cause-specific death rate
  - D. Proportionate mortality ratio (PMR)

**SECTION B: SHORT ANSWER QUESTIONS**

**(40 Marks)**

*Instructions: Answer all Questions*

1. Explain factors influencing disease transmission with the aid of an Epidemiological triangle (8 Marks)
2. State types of screening that is used to screen a population during an epidemic (8 Marks)
3. Explain the stages of community diagnosis (8 Marks)
4. While working at the Accident and Emergency department, you notice a rising number of cases of patients who present in the department with poisoning. You are tasked to perform an investigation using the public health approach model to curb the rising number of cases. Explain the steps that you will use in this investigation (8 Marks)
5. Explain the chain of infection of Malaria infection (8 Marks)

**SECTION C: LONG ANSWER QUESTIONS**

**(40 Marks)**

*Instructions: Answer all questions*

1. Describe the elements of Primary Health Care and its implementation in health care, that helps help to attain better health services for all. (20 Marks)
2. Describe the role of NGOs and faith-based organizations in the community development (20 Marks)