



(University of Choice)
**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

SECOND YEAR SECOND TRIMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN CLINICAL MEDICINE**

COURSE CODE: HCM 412

COURSE TITLE: COMMUNITY MEDICINE II

DATE: Monday 7th December 2020

TIME: 9:00- 11:00 Am

INSTRUCTIONS TO CANDIDATES

Answer all questions


Section A: Multiple choice questions (MCQ) (20 Marks)

Section B: Short answer questions (SAQ) (40Marks)

Section C: Long answer questions (LAQ) (40Marks)

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over. 

SECTION A: Multiple Choice Questions (20Marks)

1. Successful prevention and control of occupation diseases requires the following **EXCEPT**?
 - a) Information on the causal relationship the between risk factor and health outcome
 - b) Knowledge of the mechanism of action of hazardous factors and conditions
 - c) Extensive research
 - d) Monitoring of levels of occupational hazards in workers' blood

2. Which of the following is **TRUE** concerning definition of a study population during community diagnosis?
 - a) Population is characterized only by demography and economic status
 - b) Exclusive breast feeding is an important measure of local factors affecting the community
 - c) Work and levels of employment and unemployment in a community are fundamental to health
 - d) Ethnicity and religion are not considered since they have no effect on health

3. Which of the following best describes primary data?
 - a) Data that is already available
 - b) Often not expensive
 - c) May be unique hence not generalizable
 - d) All of the above

4. Which of the following does **NOT** constitute a line list?
 - a) The first column contains demographic information
 - b) A row represents a case of disease
 - c) Used to organize data during community diagnosis
 - d) A variable contains information about one characteristic of the individual

5. Concerning frequency distribution, which of the following statement is **NOT** true?
 - a) Frequency distribution tables can display the frequency distribution for a continuous or categorical variable
 - b) A histogram is often used to graph a frequency distribution of a continuous variable
 - c) Categorical variables are often further summarized into mean and standard deviation
 - d) Categorical variables are often further summarized into proportions

6. Grouped bar charts are....?
 - a) Used to illustrate data from two-variable or three-variable tables
 - b) Particularly useful for comparing the subgroups within a group
 - c) Where bars within a group are adjoining.
 - d) All of the above

7. Occupational psychosocial hazards are?
 - a) Heat and cold stress
 - b) Associated with how the work was designed, organized, and managed
 - c) Caused by exposure to certain chemicals at work place
 - d) Easily identified and treated

8. A national Occupational Safety and Health policy should provide detailed strategies in the following areas, **EXCEPT**?
- National laws, labor codes and regulations
 - Role and obligations of the competent authority
 - Disease prevention and health promotion services
 - Education and training
9. Infection prevention and control policies and guidelines _____
- Are based on research findings and recommendations from expert authorities
 - Should never be modified
 - Are not necessary for monitoring and evaluation
 - Are readily available in all health care facilities
10. Which of the following is NOT an element of spread of nosocomial infections?
- Source of infecting organisms,
 - A susceptible host
 - Means of transmission for the micro-organism
 - Environment
11. Which of the following statements is **TRUE** concerning transmission of hospital infections?
- Contact transmission is less frequent
 - Airborne and droplet transmission are one and the same
 - Medication may serve to transmit infection to multiple hosts
 - Vector borne transmission is not a concern as long as facility infrastructure is well maintained
12. Health data in community diagnosis includes?
- Environmental indices
 - Social indicators
 - Geographical distribution
 - Employment
13. Which of the following sampling method may facilitate collection of data among those who distribute and abuse illegal drugs?
- Stratified sampling method
 - Cluster sampling method
 - Purposive sampling method
 - Snowball sampling method
14. Of the following factors, which one is considered when selecting the best measure to use for a given distribution.
- The slope of the distribution
 - Skewness of the distribution
 - Type of data
 - Peak of the curve

15. The main use of the standard error of the mean is to _____
- Convey how widely or tightly the observations are distributed from the center
 - Calculate confidence intervals around the arithmetic mean
 - Be reported alongside mean as a measure of spread
 - Indicate normality of data
16. Which of following chart is useful for comparing the contribution of different subgroups within the categories of the main variable?
- 100% component bar charts
 - Deviation bar charts
 - Pie charts
 - Stacked bar charts
17. Which of the following is the Best occupational safety and health measure during care for Covid 19 case?
- Triaging
 - Personal protective equipment
 - Isolation
 - Hand hygiene
18. The following are occupational challenges resulting from modern day work environment, which one is not?
- Shift from manufacturing to service industry
 - Increase in demand for flexible working
 - Industrialization
 - Digitalization
19. Which of the following is the **NOT** the function of occupation safety and health competent authority?
- Undertake research to identify hazards means of overcoming them
 - Provide specific measures to prevent catastrophes potentially high risk for workers and the population at large
 - Approve suitable provisions on occupational safety and health
 - Legislate suitable provisions on occupational safety and health
20. Which of the following is the primary role of training in occupational safety and health?
- To promote action
 - To maintain a safe and heathy environment
 - To improve performance of workers
 - To reduce workers' strikes

Section B: Short Answer Questions (SAQs)**(40marks)**

1. List the elements of standard infection prevention and control precautions (4 Marks)
2. Name two types of community diagnosis (3 Marks)
3. Outline similarities between individual diagnosis and community diagnosis (6 Marks)
4. Outline three ways in which management can demonstrate commitment to occupational safety and health (6 Marks)
5. List the characteristics of community diagnosis (5 Marks)
6. Define the following terms
 - a) Occupation safety and health (2 Marks)
 - b) Hazard (2 Marks)
 - c) Risk (2 Marks)
7. List steps in report writing for community diagnosis (5 Marks)
8. Mention any five-core occupational safety and health principles (5 Marks)

Section C: Long Answer Questions (40Marks)

1. The following are diastolic blood pressure (mmHg) for twenty mothers that attended today's antenatal clinic outreach; 92, 74, 105, 59, 81, 72, 76, 61, 69, 75, 68, 79, 66, 72, 73, 72, 75, 80, 68, 76
 - a) Identify the median diastolic blood pressure (2 Marks)
 - b) Identify the minimum and maximum values of the diastolic blood pressure (2Marks)
 - c) Calculate interquartile range (8 Marks)
 - d) What properties make median the most appropriate measure of central location for the values (8 Marks)
2. Describe Key features of a national policy on occupational safety and health (20 Marks)

