



*(University of Choice)*

**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 121**

**COURSE TITLE: EMS COMMUNICATION AND DOCUMENTATION**

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

**TIME: 8 – 11 AM**

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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 (MCQs)**

**20 MARKS**

*Choose the most appropriate answer*

1. An electromagnetic radiation onto which a signal is encoded is called?
  - A. Signal wave
  - B. Transmitter wave
  - C. Carrier wave
  - D. Frequency wave
  
2. EMS and public safety communications systems operate in VHF band in the range of:
  - A. 3 MHz to 30 MHz
  - B. 30 MHz to 300 MHz
  - C. 300 MHz to 3.0 GHz
  - D. 3 MHz to 30 GHz
  
3. Background noise present on all radio frequencies is prevented by use of:
  - A. Sensor
  - B. Squelch
  - C. Antennae
  - D. Modulator
  
4. A base station:
  - A. Has transmitter output power of up to 175 watts
  - B. Has multiple locations
  - C. Operates on multiple frequencies
  - D. Has shorter range than mobile radios
  
5. The ideal close range out of vehicle use communication system is:
  - A. Portable transceiver
  - B. Mobile transceiver
  - C. Repeater
  - D. Mobile Data Terminal
  
6. Digital trunked system:
  - A. Transceiver is set to a specific frequency
  - B. Utilize multiple repeaters and computers to route radio traffic within the system
  - C. Can carry voice only
  - D. Operates in the 800 and 900 MHz VHF bands.
  
7. The MOST appropriate action to take after realizing an error in a submitted report is?
  - A. Disregard the submitted report.
  - B. Correct the error without notifying anyone of the change.
  - C. Notify the appropriate supervisor of the error and complete a supplemental report.

- D. Notify the appropriate supervisor of the mistake and ask to make a change to the report.
8. In a typical EMS environment, the communication loop is initiated by:
- A. Bystander
  - B. Emergency medical responder
  - C. Emergency medical dispatcher
  - D. Emergency medical technician
9. The first phase in the EMS communication system is:
- A. Transport and delivery
  - B. Preparation for the next event
  - C. Treatment and preparation for transport
  - D. Notification and response
10. Digital transmission of patient's ECG tracings to medical director is termed ?
- A. Electro telemetry
  - B. Cardio telemetry
  - C. Digital telemetry
  - D. Biotelemetry
11. Multiple radio systems:
- A. Utilize a pair of frequencies
  - B. Use biotelemetry
  - C. Continuous communication in both directions
  - D. Signals transmitted on one frequency
12. The immediate step in radio communication after power on is:
- A. Push the "press to talk" button
  - B. Set frequency
  - C. Adjust antennae
  - D. Position microphone two to three inches from lips
13. The wait to speak time on radio after pressing transmit button is:
- A. 1 second
  - B. 2 seconds
  - C. 3 seconds

- D. 4 seconds
14. Request for additional resources is done during:
- A. Dispatch communications
  - B. En route communications
  - C. On scene communications
  - D. Leave scene communications
15. Which form of consent allows you to treat a responsive patient?
- A. Expressed consent
  - B. Informed consent
  - C. Involuntary consent
  - D. Implied consent
16. In therapeutic communication, the technique of restating patient's statement using your own words is termed:
- A. Clarification
  - B. Summary
  - C. Paraphrasing
  - D. Reflection
17. Which of the following terms describes what the patient tells you is bothering him or her?
- A. Objective information
  - B. Chief complaint information
  - C. Subjective information
  - D. Minimum data set
18. In SBAR acronym for communication with medical direction, the 'R' stands for:
- A. Request
  - B. Recommendation
  - C. Refusal
  - D. Return
19. Which of the following is least important information to relay to medical director?
- A. Exact location of the incident
  - B. Estimated time of arrival
  - C. Description of the scene
  - D. Physical exam finding
20. Documentation of the chief complaint, vital signs, level of consciousness, patient demographics, and assessment information is referred to as the:

- A. Maximum data set.
- B. HIPAA data set.
- C. Patient care report
- D. Minimum data set

**SECTION B: SHORT ANSWER QUESTIONS (SAQS)**

**40 MARKS**

*Answer all questions*

1. Outline the 7 C's in communication as applied in EMS (7 marks)
2. Explain emergency medical dispatch (9 marks)
3. Explain four purposes of EMS documentation (8 marks)
4. Explain four measures to curb errors and falsifications in EMS documentation (8 marks)
5. Outline information included while documenting incident time (8 marks)

**SECTION C: LONG ESSAY QUESTIONS (LEQS)**

**40 MARKS**

*Answer all questions*

1. Describe the barriers to EMS communication and how you can overcome them as a paramedic (20 marks)
2. Describe the components of a thorough patient refusal document (20 marks)

END