



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

**SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FIRST YEAR THIRD TRIMESTER FOR THE DEGREE OF MASTER OF  
SCIENCE IN ADVANCED NURSING PRACTICE  
MAIN EXAMINATION**

**COURSE CODE: NCC 8131**

**COURSE TITLE: *INTRODUCTION TO CRITICAL CARE NURSING***

**DATE: 25 July 2022**

**Time: 8:30-11:00am**

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**INSTRUCTIONS TO CANDIDATES**

**All questions are compulsory**

**DURATION: 3 Hours**

MMUST observes ZERO tolerance to examination cheating

1. Mr. Ferriere has been on home ventilation for several years with severe COPD. He was admitted for exacerbation of COPD due to pneumonia. At home, he varies his support between Pressure Control ventilation and spontaneous breathing. His pneumonia has now resolved and the plan is to return him to his baseline ventilation. He calls you to his bedside and asks you what his ventilator is set to because he feels short of breath. You tell him he is on Pressure Support, and he becomes very angry. He tells you that he told the respiratory therapist that he has tried Pressure Support in the past and he does not like it. When you speak to the respiratory therapist, she had placed the patient on PS to see if he noticed the difference. Which one of the following is an appropriate response?

Discuss the concepts and principles of critical care nursing. (20marks)

2. As a newly employed staff seating in a policy committee on strategic planning for introduction of a six bed critical care unit, discuss your input in guiding the management on factors to consider in preparation to putting up the unit?(20marks)

3. The ICU setting has the potential to afford patients the best possible opportunity to heal if key stress-reducing elements are incorporated into its physical design

Discuss the impact of critical care unit environment on the patients and its risk factors?

(20Marks)

4. A 65 year old retired man was diagnosed to have motor neuron disease 4 years prior to retirement and had become progressively worse Bed ridden, could not talk, communicated by writing; fully alert and compos mentis Failed attempts to wean off respirator Opinion backed by evidence that further attempts would be futile.

Discuss ethical issues and dilemmas commonly encountered during the management of critically ill patient in ICU? (20marks)

5. Mrs. Pitre is recovering from septic shock. After failing several spontaneous breathing trials, she received a percutaneous tracheostomy tube. Two days later, within 10 minutes of starting a tracheostomy mask trial, she complains of shortness of breath and demands to return to the ventilator. Her SpO<sub>2</sub> remains > 95% during the trial. Which one of the following interventions pre trachestomy mask trial is most likely to reduce her dyspnea and facilitate spontaneous breathing?

Using the Dorothea theory of self-care, discuss the criteria and principle of ICU admission?(20marks)