

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE IN NURSING

NUCC 842: RESPIRATORY AND THORACIC CRITICAL CARE NURSING

STREAMS: Y2S1

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 31/03/2021

8.30 A.M. – 11.30 A.M.

INSTRUCTIONS:

- **Answer all questions**

Question One (25 marks)

A 56-year-old man with a history of hypertension that is poorly controlled presents to the emergency department with chest pain and difficult breathing. Relatives give a history of abrupt occurrence of difficulty in breathing with subsequent fevers and chills. On physical examination, the patient is dyspneic, leans forward and apprehensive. Vital signs: blood pressure is 190/110 mmHg, heart rate is 112 beats/min, respiratory rate is 29 breaths/min, temperature is 39.3°C, and SaO₂ is 89% on room air. Lung examination shows diminished air entry bilaterally. Upon further evaluation, a diagnosis of acute pneumonia is made.

- a) Describe the emergency management of the above patient, giving rationales (12 marks)
- b) Explain the pathophysiology of pneumonia (8 marks)
- c) Outline the discharge instructions for the above patient (5 marks)

QUESTION TWO (25 MARKS)

Discuss the standard nursing management of the mechanically ventilated patient (25 marks)

QUESTION THREE (25 MARK)

Discuss the specific nursing management of the patients with the following disorders:

- a) Inhalational injury (8 marks)
- b) Cardiogenic pulmonary edema (8 marks)
- c) Postoperative patients in the post-anesthesia care unit (9 marks)

QUESTION FOUR (25 MARKS)

A 35-year old woman with a known history of asthma is brought to the emergency department with severe dyspnea:

- a) Explain the emergency management of this patient giving rationales for the actions (8 marks)
 - b) Describe the pathophysiology of asthma (7 marks)
 - c) Describe the long-term management plan for the above patient (10 marks)
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