

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF  
SCIENCE IN NURSING

NURU 342: RENAL AND CRITICAL CARE NURSING

STREAMS: BSc. NURSING (Y2S1)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 23/04/2025

8.30 A.M. – 10.30 A.M.

**INSTRUCTIONS**

- All questions are compulsory
- Ensure that all your answers are properly numbered
- Section A: Multiple Choice Questions (MCQs)- write the correct answer in the answer booklet. Each MCQ is one mark
- Section B: Short answer questions- Answer questions following each other on the answer booklet
- Section C: Long Answer Question-answer each question in the answer booklet and number your work appropriately

**SECTION A: MULTIPLE CHOICE QUESTIONS( 20 MARKS)**

1. A patient who has an inhalation injury comes to the ER. On the initial assessment, the nurse notes that the patient is very confused and physically defensive. What do you think the client may be experiencing?
  - a) Anxiety
  - b) Fear
  - c) Hypoxia
  - d) Pain

2. A patient who has been admitted with a gastric ulcer now develops severe epigastric pain that spreads over the entire abdomen. He is very pale and is lying on his side. What should be the nurse's immediate action?
  - a) Notify the doctor and check the vitals
  - b) Immediately administer opioids
  - c) Perform deep palpation on the abdomen
  - d) Reposition the patient in semi fowlers position
3. Which of the following statements is true for acute liver damage?
  - a) The main reason for acute liver failure is chronic liver damage
  - b) Metabolic alkalosis is the common indicator of acute liver damage
  - c) It might lead to cardiac arrhythmia and respiratory failure
  - d) None of the statement is true
4. In critical care, standards of nursing practice are best defined as:
  - a) Statements that identify the nurses' role in providing care
  - b) Guidelines for ethical practice
  - c) Authoritative statements describing the nurse's accountability and responsibilities
  - d) Guidelines that ensure that the nursing outcomes are the same
5. Which of the following statements describes a sterile nursing practice when suctioning an endotracheal tube
  - a) Hyper oxygenation before each cycle OD suctioning,
  - b) Use a separate tube and washing solution for ETT suctioning
  - c) Suctioning the patient every 2 hours
  - d) Use separate suction catheter for ETT suctioning for 48 HRS
6. Which of the following is a common indication for ICU admission?
  - A) Stable chest pain
  - B) Severe asthma exacerbation
  - C) A mild head injury
  - D) Routine post-operative recovery
7. A 35 year old male patient is undergoing hemodialysis with an internal arteriovenous fistula in place. What do you do to prevent complications associated with this device?
  - a. Report a bruit or thrill over the fistula to the doctor

- b. Palpate pulses above the fistula
- c. Avoid taking blood pressures in the arm with the fistula
- d. Insert IV lines above the fistula

8. The ER nurse is monitoring a client who received treatment for a severe asthma attack. The nurse determines that the client's respiratory status had worsened if which of the following is noted on assessment?

- a. Diminished breath sounds
- b. Wheezing during inhalation
- c. Wheezing during exhalation
- d. Wheezing throughout the lung field

9. A client is undergoing fluid replacement after being burned on 20% of her body. The nursing assessment reveals a Blood pressure of 90/50mmHg, pulse rate of 110b/m, and urine output of 20ml/hr. The nurse reports the findings to the physician and anticipates which of the following prescriptions?

- a. Transfusing one packed red blood cells
- b. Administering a diuretic to increase the urine output
- c. Increasing the amount of IV lactated Ringer's solution
- d. Changing the IV lactated Ringer's solution to dextrose in water

10. A patient with End Stage renal disease has an arteriovenous fistula in the left arm for hemodialysis. Which intervention do you include in his plan of care?

- a. Place the arm on an arm board for at least 30 minutes
- b. Apply pressure to the site upon discontinuing hemodialysis
- c. Keep the head of the bed elevated 45 degrees
- d. Keep the left arm dry

11. In replying to a patient's questions about the seriousness of her chronic kidney disease, the nurse knows that the stage of chronic kidney disease is based on:

- a. The total daily urine output
- b. The Glomerular Filtration Rate
- c. Serum creatinine and urea levels
- d. The degree of altered mental status

12. To perform cardiac compression, the nurse should place their hands
  - a. Halfway between the sternal notch and xiphoid
  - b. Over the xiphoid
  - c. Two fingers above the xiphoid
  - d. Two fingers below the xiphoid
13. Impaired blood supply to the kidneys may cause
  - a. Peri-renal failure
  - b. Pre-renal failure
  - c. Intra-renal failure
  - d. Post-renal failure
14. The most suitable oxygen delivery device for a patient with severe respiratory distress is.
  - a) Nasal cannula
  - b) Simple face mask
  - c) Venturi mask
  - d) Mask with a reservoir
15. Indication for dialysis include the following except:
  - a) Hyperkalemia
  - b) Acidosis
  - c) Increasing anaemia
  - d) Ketoacidosis
16. Common site for central venous pressure catheter include?
  - a) Subclavian and internal jugular vein.
  - b) Subclavian and external jugular vein.
  - c) Subclavian and internal carotid vein.
  - d) Internal jugular and internal carotid vein.
17. The amount of gas set to be delivered with each breath in a ventilator is called?
  - a) Minute ventilation.
  - b) Inspiratory time.
  - c) Tidal volume.
  - d) Respiratory rate

18. Which ethical principle implies a strong sense of self determination and acceptance of responsibility for one's own choice and action?

- a) Beneficence.
- b) Non maleficence.
- c) Autonomy.
- d) Justice.

19. One of the chemical buffers that regulate acidity and is produced by the kidney is

- a) Chime
- b) Bicarbonate
- c) Blood
- d) Testosterone

20. Respiratory alkalosis may be caused by:-

- a) Hyperventilation
- b) Chronic vomiting
- c) Diet
- d) Emphysema

**SECTION B: SHORT ANSWER QUESTIONS (30 Marks)**

1. a) Define chronic kidney disease (2 marks)  
b) State five (5) common risk factors for CKD (5 marks)
2. a) Define hemodynamic monitoring (1 Mark)  
b) Briefly outline the five (5) components of hemodynamic monitoring systems. (5 Marks)  
c) State four (4) nursing considerations on a patient with an arterial line (4 Marks)
3. Explain the nursing management for a patient on endotracheal tube. (5 Marks)
4. Outline Four (4) pre renal cause of Renal failure. (4 Marks)
5. State four (4) Complications of oxygen therapy. (4 marks)

**SECTION C: LONG ANSWER QUESTION (20 MARKS)**

1. A patient is brought to hospital with a diagnosis of Acute Kidney injury. Patient is scheduled for hemodialysis.

- a) Explain eight specific nursing tasks in regard to hemodialysis (8 Marks)
- b) State six complications related to hemodialysis. (6 Marks)
- c) Explain three phases of peritoneal dialysis. (6 Marks)

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