

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF  
SCIENCE IN NURSING**

**NURU 342: RENAL AND CRITICAL CARE NURSING**

**STREAMS: Y3S2**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 16/12/2020**

**8.30 A.M. – 10.30 A.M.**

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**INSTRUCTIONS:**

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are NOT allowed in the examination room.
- The paper has three sections. Answer ALL the questions.
- All your answers for Section I (MCQs) should be on one page.
- Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
- Write your answers legibly and use your time wisely

**A. Multiple choice questions (15mks).**

1. Indicators of sufficient hydration status of a patient include the following EXCEPT: -
  - a) Urine output of 0.5-1 ml/kg/hr
  - b) Moist mucous membranes
  - c) Delay in flattening of skin after pinch
  - d) Capillary refill <3seconds
2. A patient is being transferred from the ICU to a regular hospital room. What must the ICU nurse be prepared to do as part of this transfer?
  - a) Provide a verbal report to the nurse on the new unit
  - b) Provide a detailed written report to the unit secretary or the records officer.
  - c) Delegate the responsibility for providing information
  - d) Make a copy of the patient's medical record

3. 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) Masks with a reservoir
  
4. In a haemodynamically stable 20-year-old male presenting with blunt chest trauma, the best screening test for diagnosis of cardiac injury requiring treatment is
  - A. chest X-Ray
  - B. serum CK-MB levels
  - C. serum Troponin levels
  - D. standard 12 lead ECG
  
5. The normal blood pH range is: -
  - a) 7.25-7.35
  - b) 7.35-7.45
  - c) 7.45-7.55
  - d) 7.55-7.65
  
6. The type of heart block characterized by progressive lengthening of P-R interval until an impulse is completely blocked resulting in a missing QRS complex is: -
  - a) First degree heart block
  - b) Second degree heart block-Mobitz type 1
  - c) Second degree heart block-Mobitz type 2
  - d) Third degree heart block
  
7. When taking a 12-lead ECG, the 4th precordial lead is placed at: -
  - a) 4th intercostal space right sternal border
  - b) 4th intercostal space left sternal border
  - c) 5th intercostal space mid-clavicular line
  - d) 5th intercostal space anterior auxiliary line
  
8. A patient with a head injury who has eye opening to speech, no verbal responses and withdrawal motor responses would have a Glasgow Coma Scale score of
  - A. 4
  - B. 8
  - C. 6
  - D. 7
  
9. True or False: All patients with acute renal injury will progress through the oliguric stage of AKI but not all patients will progress through the diuresis stage.

True

False

10. Indications for endotracheal suctioning includes the following EXCEPT: -
- a) Expiry of prescribed interval for suctioning
  - b) Secretions that are heard or visible
  - c) Diminished breath sounds or crepitations evident on auscultations
  - d) Failure to reach preset tidal volume
11. Indications for dialysis include the following except
- a. hyperkalemia
  - b. Acidosis
  - c. Increasing uraemia
  - d. ketoacidosis
12. The following are observed in turbidity of urine except:-
- a. Pyuria
  - b. Chyluria
  - c. Excessive phosphate
  - d. Myoglobinuria
13. True hyperkalemia is due to 3 major mechanisms:
- a. Decreased renal excretion.
  - b. Increased renal excretion
  - c. Increased release from cells.
  - d. Increased intake of potassium.
14. \_\_\_\_\_ is solely filtered from the bloodstream via the glomerulus and is NOT reabsorbed back into the bloodstream but is excreted through the urine.
- a. Urea
  - b. Creatinine
  - c. Potassium
  - d. magnesium
15. Which of the following is the most appropriate patient nurse ratio in ICU
- a. 1:2
  - b. 1:4
  - c. 1:5
  - d. 1:6

**B. Short answer questions (35 marks).**

1. State six (6) roles of critical care nurse. (6 marks)
2. State four (4) Principles of Critical Care nursing. (4 marks)
3. State six (6) Complications of oxygen therapy. (6 marks)

4. State five (5) Contraindications of Positive End Expiratory Pressure PEEP. (6marks)
5. Outline five (5) main components of nursing care for mechanically ventilated patients. (5 marks)
6. The critical care unit (CCU) environment provides unique stressors not found in wards. State four (4) Patient stressors in CCU and possible solutions. (8marks)

**C. Long answer questions (20 marks)**

1. Halima is admitted in the ward with a diagnosis of chronic kidney disease.
    - a. Explain three Phases of Peritoneal Dialysis. (6 marks)
    - b. Describe the Strategies for Providing Care to Halima. (14 marks)
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