



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

FIRST YEAR SECOND TRIMESTER EXAMINATIONS

**FOR THE DEGREE
OF
MASTERS OF SCIENCE IN NURSING**

COURSE CODE: NMP 8211

COURSE TITLE: : PAEDIATRIC NEPHRO-UROLOGY NURSING

NURSING MAIN EXAMINATION

DATE: 11TH DECEMBER 2023

TIME: 8.00PM-11.00AM

INSTRUCTIONS TO CANDIDATES

Answer all Questions

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

Ensure that you have all TWO (2) printed pages. Please turn over

1. Lorna is a 10-year-old girl who presented to the pediatric outpatient clinic with failure to pass urine for 3 days and a 2-day history of headache and facial puffiness.
 - a. Outline four investigations that will be necessary in the determination for the need and appropriateness of dialysis (8 marks)
 - b. Compare the utility of hemodialysis and peritoneal dialysis in this patient (12 marks)
2. Urinary tract infection (UTI) is more common in girls than boys.
 - a. Discuss the gender disparities in the prevalence of urinary tract infections in children less than ten years old (8 marks)
 - b. Compare the utility of urinalysis and urine culture and sensitivity in the diagnosis of UTI (6marks).
 - c. Describe the treatment of urinary tract infection in a 4-year-old boy (6 marks)
3. Mildred, a 13-year-old girl was brought to the casualty department with a sudden onset of lower abdominal pains, sweating and vomiting. Upon evaluation, the pain was more severe at the left lamber region without rebound tenderness. A plain abdominal X-ray done showed a radio-opaque left lamber mass.
 - a. Describe 4 risk factors for this condition (8 marks)
 - b. Outline 5 investigations for this condition (5 marks)
 - c. Describe the role of nursing in the management of this condition (7 marks)
4. Acute kidney injury is associated with both acute and long-term sequelae.
 - a. Outline 5 causes of pre-renal kidney injury (5 marks)
 - b. Describe 5 chronic sequelae of acute kidney injury (10 marks)
 - c. Highlight 5 basic principles for management of acute kidney injury (5 marks)
5. James is a 5-year-old boy who presented to the pediatric outpatient department with a 3-week history of generalized body swelling and reduced urine output. On clinical assessment, he has bilateral pedal pitting edema, ascites and facial puffiness although his blood pressure is normal.
 - a. Describe 3 investigations that will aid in the confirmation of diagnosis (6 marks)
 - d. What is the role of nursing in the management of this condition? (6 marks)
 - e. Describe 4 complications of this condition (8 marks)