



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

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FIRST YEAR THIRD TRIMESTER EXAMINATIONS  
FOR THE DEGREE OF**

**MASTER OF SCIENCE IN MIDWIFERY  
COURSE CODE: NMM 8134**

**COURSE TITLE: Paediatric Endocrinology Nursing**

**DATE: 26 / 7 / 2022**

**TIME: 11. 30 AM- 2.30 P.M**

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**INSTRUCTIONS TO CANDIDATE**

- Write your registration no, on every piece of paper used. Do not write your name.
- Read carefully any additional instructions preceding each section.
- 3 HOURS
- The paper contains 5 (five) long essay questions for 20 marks each
- Answer all 5 (five) questions following each other in answer booklet provided

MMUST observes ZERO tolerance to examination cheating

This Paper Consists f 5 Printed Pages. Please Turn Over.



1. Congenital hypothyroidism is associated with various complications in children.
  - a. Highlight 5 clinical features that are likely to be found in a 2 months old infant with congenital hypothyroidism (5 marks)
  - b. Describe the role of nursing in the diagnosis and treatment of congenital hypothyroidism (15 marks)
2. Japheth, a 7-year-old boy is a known diabetic patient on insulin therapy for the past 4 years. He is brought to the casualty department with a 2-day history of fever and vomiting and a one day history of altered level of consciousness. On assessment, he is found to have a GCS of 10/15, deep and fast breathing and he is markedly dehydrated.
  - a. Outline 4 investigations that must be carried out to aid in the diagnosis and management of this patient (8 marks)
  - b. Describe the treatment of this condition (12 marks)
3. Addison's disease is one of the endocrinology disorders affecting both pediatric and adult population.
  - a. Compare etio-pathophysiological mechanisms of congenital and acquired Addison's disease (10 marks)
  - b. Highlight 4 diagnostic investigations for this disease (10 marks)
4. Terry was brought to the pediatric outpatient clinic with a 1 month history of intermittent headache, associated with episodes of profuse sweating and panicky attacks. On initial assessment, her blood pressure was noted to be fluctuating between 90/50 mmHg and 220/160mmHg.
  - a. Describe 3 test that would help in the diagnosis and management of this 13 year old girl (6 marks)
  - b. Compare surgical and pharmacological approaches to treatment of this condition (8 marks)
  - c. Outline three complications associated with this condition (6 marks)
5. A ten year-old boy presents to the pediatric outpatient clinic with a history of abnormal swelling of the feet and hands. On examination, he is found to have a protruding lower jaw.
  - a. Describe the pathophysiology of this condition (10 marks)
  - b. Describe the treatment of this condition (10 marks)