



**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: NMP 8133

COURSE TITLE: CARDIO -RESPIRATORY & HAEMATOLOGIC NURSING

DATE: 26 / 7 / 2022

TIME: 8AM -11AM

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 of 5 Printed Pages. Please Turn Over.



1. John, a 10 year old boy is brought to the pediatric outpatient clinic with a 5 day history of painful left knee and ankle joints, fever and awareness of the heartbeat. Further history reveals that he has been managed for throat infections in the past 5 weeks.
 - a. Outline 4 investigations that will aid in the management of this condition (8 marks)
 - b. Describe the appropriate nursing care for this child (12 marks)
2. Tuberculosis is a significant cause of morbidity and mortality among children, with Kenya being among the top 30 high burden countries in the world.
 - a. Discuss the risk factors for the development of multidrug resistant childhood tuberculosis (10 marks)
 - b. Describe the role of nursing in prevention of tuberculosis (10 marks)
3. Chelsea is a 6 year old girl who was rushed to the pediatric casualty department with a sudden onset of difficulty in breathing, wheezing and cough. The father also reported that she has previously had recurrent skin rash that was quite itchy which usually responds to certain topical creams.
 - a. Describe the pathophysiology of this condition (8 marks)
 - b. Discuss the emergency management of this child (8 marks)
 - c. Outline 4 complications of this condition (4 marks)
4. Daisy, a 12 year old girl developed lower limb swelling, easy fatigability and palpitations. On clinical assessment at the pediatric outpatient clinic, the triage nurse found SPO₂ of 70% at room air and cold extremities.
 - a. Outline 3 differential diagnoses for this condition (3 marks)
 - b. Compare the utility of ACE inhibitors and diuretics (10 marks)
 - c. Discuss the role of nursing in the management of this child (7 marks)
5. Hemophilia is a chronic condition associated with various complications.
 - a. Describe the inheritance of this condition (8 marks)
 - b. Discuss the management of this condition in a 6 year old boy (12 marks)