



(University of Choice)

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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

END OF SEMESTER EXAMINATIONS

**FOR THE DEGREES
OF**

**MASTER OF MEDICAL LABORATORY SCIENCES & TECHNOLOGY
(HAEMATOLOGY AND BLOOD TRANSFUSION OPTION)**

COURSE CODE: BMH 825

**COURSE TITLE: ONCOHAEMATOLOGY, STEM CELL AND
MARROW TRANSPLANTION SCIENCES**

DATE: 26/04/2022

TIME: 8.00 -11.00 AM

INSTRUCTIONS TO CANDIDATES

This examination paper contains five questions of 25 marks each. Answer QUESTIONS ONE and any other THREE questions. Illustrate your answers with labeled diagrams where appropriate.

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

QUESTION ONE

Discuss haematopoietic stem cell transplantation as follows: (25 marks).

- a) Types of donors
- b) Transplantation process
- c) Sources
- d) Indications

QUESTION TWO

Discuss the methods of haematopoietic stem cell manipulation and patient preparation before transplantation (25 marks).

QUESTION THREE

Discuss graft-versus-host disease as follows (25 marks).

- a) Definition
- b) Mechanisms
- c) Complications
- d) Management

QUESTION FOUR

Classify human leukaemias according to the FAB system (25 marks).

QUESTION FIVE

Discuss laboratory diagnosis of leukaemias (25 marks).