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(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

END OF SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF

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

COURSE CODE: BMH 821

COURSE TITLE: ERYTHROCYTE PATHOLOGY

DATE: 8TH DECEMBER 2023

TIME: 8.00-11.00AM

INSTRUCTIONS TO CANDIDATES:

This examination paper contains four questions of 25 marks each. Answer ALL 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

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QUESTION ONE

Differentiate the clinically significant Hb SS and Hb SC in sickle cell disease

(25 marks)

QUESTION TWO

Describe polycythemia as a condition in erythrocyte pathology

(25 marks)

QUESTION THREE

Discuss the causes, risk factors and laboratory diagnosis of aplastic anemia (25 marks)

QUESTION FOUR

Discuss thalassemia pathophysiology, clinical features and laboratory diagnosis (25 marks)

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