



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

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

**THIRD YEAR SECOND SEMESTER MAIN PRACTICAL
EXAMINATION**

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN MEDICAL BIOTECHNOLOGY

COURSE CODE: MLB 300

COURSE TITLE: PRACTICUM I

DATE: 11TH APRIL 2023

TIME: 9.00 – 11.00 AM

INSTRUCTIONS TO CANDIDATES

Answer all Questions.

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

1a) Determine the concentration and purity of the DNA sample labelled MB1 (35 Marks)

b) Comment on the purity of the sample (5 Marks)

2) You are provided with 5M sodium chloride solution, chilled absolute isopropanol alcohol, 70% ethanol and nuclease free water, concentrate the above sample (30 Marks)

3) Determine the concentration of the above DNA concentrate (30 Marks)