



MASEÑO UNIVERSITY

UNIVERSITY EXAMINATIONS 2013/2014

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN MEDICAL
BIOTECHNOLOGY WITH INFORMATION TECHNOLOGY
(MAIN CAMPUS)

**PMB 110: INTRODUCTION TO MEDICAL
BIOTECHNOLOGY**

Date: 29th November, 2013

Time: 2.30 - 4.30 p.m.

**PMB 110: INTRODUCTION TO MEDICAL BIOTECHNOLOGY
BSC MEDICAL BIOTECHNOLOGY**

SECTION A {40 MARKS}

Attempt ALL questions. Each question carries 10 marks. Illustrate your answers with labeled diagrams where necessary.

Q1. Write short notes on the following:

- a) ISO certification
- b) Food, Drug and Administration (FDA)
- c) GxP

Q2. Describe in details the four aims of Medical Biotechnology.

Q3. Outline the key areas that a pharmaceutical industry needs to adhere to in order to be GxP compliant.

Q4. Discuss briefly how cells and biological molecules are critical in biotechnology.

SECTION B {30 MARKS}

Attempt any TWO questions in this section. Each question carries 15 marks. Illustrate your answer with labeled diagrams where necessary.

Q5. Discuss the different types of biotechnology.

Q6. Discuss biosafety and bioethics in the context of capacity for risk assessment.

Q7. a) Define biosafety
b) Describe the fields in which biosafety takes a key role.