



# Technical University of Mombasa

Faculty of Applied and Health Sciences

**DEPARTMENT OF PURE AND APPLIED SCIENCES**  
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF  
TECHNOLOGY IN INDUSTRIAL MICROBIOLOGY AND  
BIOTECHNOLOGY  
**BTMBT**

**SBT 2454 : BIO-ILLUSTRATION**

SPECIAL/SUPPLEMENTARY EXAMINATION

OCTOBER 2013 SERIES

2 HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

Answer question **ONE** (compulsory) and any other **TWO** questions

## Question ONE

- a) Highlight contrast control techniques applicable in photo printing. **(8marks)**
- b) Outline the exposure settings of a digital camera **(12marks)**
- c) Describe the preparation of images for electronic display. **(10marks)**

## Question TWO

Describe the development of the 35mm film

**(20marks)**

**Question THREE**

- a) Outline the history of photography **(10marks)**
- b) Describe the development of large format film by use of the job Rotary machine processor **(10marks)**

**Question FOUR**

- a) Outline the limitations of tow photon laser scanning microscope **(10marks)**
- b) Draw a comparative image process flow chart for digital and analogue photography.  
**(10marks)**

**Question FIVE**

- a) Describe the techniques applicable in creating the illusion of depth when taking a photograph **(10marks)**
- b) Outline the biological applications of two –photon excitation laser scanning microscope.  
**(10marks)**