



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

(DICT MAY12 –EV/FT)

ECT 2113: COMPUTER APPLICATION II

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

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

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question One (Compulsory)

- a) Define desktop publishing. **(2 marks)**
- b) Describe the following terms terms as used in desktop publishing. **(4 marks)**
- i) Docker
 - ii) Page tab
 - iii) Flyout
 - iv) Object
- c) Design the Kenyan flag below and save it on the desktop as flag. **(14 marks)**

Question Two

- a) Define the term multimedia. **(2 marks)**
- b) State **FOUR** characteristics of multimedia systems. **(4 marks)**
- c) State **FOUR** multimedia systems. **(4 marks)**
- d) State **THREE** types of publications that can be designed using desktop publishing. **(3 marks)**
- e) Design the logo illustrated below then save it on the desktop as a logo.

Question Three

- a) State and describe **FOUR** components of multimedia systems. (4 marks)
- b) Differentiate between skewing an object and nudging an object. (4 marks)
- c) Why is desktop publishing a powerful software on designing and creating publication compared to Microsoft word? (2 marks)
- d) State and describe the challenges faced by multimedia systems. (4 marks)
- e) State **SIX** desirable features of multimedia systems. (6 marks)

Question Four

- a) State and describe **THREE** algorithms of data compression. (6 marks)
- b) Briefly explain the following file formats. (6 marks)
 - (i) Jpeg
 - (ii) Mpeg
 - (iii) H.263
- c) Why is data compression important in multimedia? (2 marks)
- d) Differentiate between lossy and lossless techniques of data compression. (6 marks)

Question Five

- a) State **FIVE** areas where multimedia can be applied and explain how it is applied. (5 marks)
- b) Differentiate between bitmap image and vector image. (4 marks)
- c) Define animation (1 mark)
- d) Design the logo below and save it on the desktop as wifi. (10 marks)