



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT MAY12 –EV/FT)

ECT 2113: COMPUTER APPLICATION II

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

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) Design the Kenyan flag below and save it on the desktop as flag. **(14 marks)**

b) Give **TWO** examples of text based DTP software and **TWO** examples of graphic based DTP software. **(4 marks)**

c) Differentiate between a vector image and a bitmapped imaged. **(2 marks)**

Question Two

a) State the importance of data compression in multimedia. **(1 mark)**

b) Differentiate between lossy and lossless technique. **(4 marks)**

c) Describe the term must sequency. **(2 marks)**

d) Explain how multimedia can be applied in the following areas. **(3 marks)**

- (i) Engineering
- (ii) Medicine
- (iii) Entertainment

e) Design the logo below and save it on the desktop as Wifi. **(10 marks)**

Question Three

a) Differentiate between Artistic text and paragraphic text. **(4 marks)**

- b) Briefly describe the following: (6 marks)
(i) Docker
(ii) Flyout
(iii) Object
- c) State and describe the data compression techniques. (6 marks)
- d) Briefly explain the function of the following parts in a coral draw application:
(i) Color palette
(ii) Status bar
(iii) Tool box
- e) State and describe the challenges faced by multimedia systems. (4 marks)

Question Four

- a) Design the logo below and save it on the desktop as Wikimedia. (10 marks)

- b) State the uses of the following tools in Corel Draw. (4 marks)
(i) Shape tool
(ii) Pick tool
(iii) Extrude tool
(iv) Drop shadow tool
- c) Differentiate between rotating and object and skewing an object. (4 marks)
- d) Outline the procedure of drawing a circle. (2 marks)

Question Five

- a) Briefly explain the following file formats:
(i) JPEG
(ii) MPEG
(iii) H.263
- b) Briefly describe the difficulties faced by multimedia systems. (4 marks)
- c) State and describe **THREE** algorithms of data compression. (6 marks)
- d) Define animation (2 marks)
- e) Differentiate between multimedia and hypermedia. (2 marks)