THE TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 12J)

EIT 2207: MULTIMEDIA SYSTEMS

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2013
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (Compulsory)

a) Define the term multimedia presentation **(2 marks)**

b) Explain **FOUR** characteristics of multimedia **(8 marks)**

c) Explain **THREE** prerequisites that should be present if multimedia based application is to capture an appreciable sector of the market. **(6 marks)**

d) List **TWO** industries that employ multimedia technologies, for each. **(4 marks)**

Question Two

a) Multimedia production is a complicated process, usually involving many people. Outline **FIVE** professionals who may be involved for each give a brief description of their roles.
(10 marks)

b) Explain **SIX** considerations for improving readability when selecting fonts **(6 marks)**

c) Differentiate between Lossy and Lossless compression. **(4 marks)**

Question Three

a) Navigation is a major concern when dealing with hypertext. Outline any **FOUR** navigation aids that can help users to locate information with ease. **(8 marks)**

b) Compare and contrast MIDI audio and Digital audio as used in multimedia technologies.
(10 marks)

c) List any **TWO** software commonly used in multimedia authoring. **(2 marks)**

Question Four

a) Explain any **FOUR** video file formats. **(8 marks)**

b) Discuss how sound is used in multimedia **(12 marks)**

Question Five

a) State **FIVE** design issues when working on a multimedia project. **(10 marks)**

b) Give the full terms for each of the following abbreviations and briefly explain their use.
   (i) NTSC
   (ii) PAL
   (iii) SECAM
   (iv) HDTV
   (v) ATSC **(10 marks)**