TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICT)

EIT 2206: MULTIMEDIA SYSTEMS

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2014
TIME: 2 HOURS

This paper consists of **FIVE** questions. Attempt question **ONE (Compulsory)** 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 following multimedia systems terms:
    (i) Digital multimedia
    (ii) Multimedia system
    (iii) Multimedia authoring system
    (iv) Interactive multimedia   **(8marks)**

b) Describe FOUR hardware components required for a multimedia system giving an example in each case.   **(8 marks)**
c) Explain any FOUR authoring paradigms.   **(8 marks)**

d) Explain any THREE multimedia trends.   **(6 marks)**

Question Two

a) Discuss FOUR basic characteristics of a multimedia system.   **(8 marks)**

b) Describe Fidelity in digital audio   **(2 marks)**

c) Give reasons why CD-Roms have become the media of choice in Music Industry.   **(5 marks)**

Question Three

a) Give FIVE compression requirements in multimedia.   **(5 marks)**

b) Distinguish between Lossless and Lossy compression.   **(3 marks)**

c) List FIVE commonly used lossy standards.   **(5 marks)**

d) List TWO audio file formats.   **(2 marks)**

Question Four

a) Define CD Ripping.   **(1 mark)**

b) Explain TWO key challenges for multimedia systems.   **(3 marks)**

c) Describe SIX desirable features of a multimedia system.   **(12 marks)**

Question Five

a) Define animation   **(2 marks)**

b) Describe the design steps in animation   **(8 marks)**

c) List activities involved in video editing.   **(5 marks)**