



# TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION

TECHNOLOGY

**UNIVERSITY EXAMINATION FOR:**

DICT JAN 2015

EIT 2206: MULTIMEDIA SYSTEMS

END OF SEMESTER EXAMINATION

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month Pick Year

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt any **THREE** questions.

**Do not write on the question paper.**

- Q1(a)i. Describe the components of term Video Conferencing as used in multimedia. (6 marks)
- ii. Explain any five advantages of video conferencing. (10 marks)
- iii. Explain any four disadvantages of video conferencing. (4 marks)
- Q2(a) Explain and give two examples of the following terms as used in multimedia.
- i. Edutainment
- ii. Infotainment (8 marks)
- (b)i. Explain the term Virtual Reality (2 marks)
- ii. Explain the features of Virtual Reality (6 marks)

**c) List any four electronic mail service providers (4 marks)**  
**Q3(a) Explain the process of digitizing in digital audio (2 marks)**

**(b) Explain any five sources of sound for digitizing (10 marks)**

c) Explain the following audio editing operations in multimedia.

- i. Resampling or downsampling
- ii. Equalization
- iii. Reversing Sounds
- iv. Time Stretching:

(8 marks)

Q4.(a) Describe the following categories of graphics

- i. Bitmap Graphics
- ii. Vector Graphics

(8 marks)

(b) There are many file formats used to store bitmaps and vectored drawing. List any five file formats.

(5 marks)

c) i Explain the term animation as a multimedia block (2 marks)

d) State any five software applications in the market for animations.

(5 marks)

Q5(a) Explain the following Broadcast Video Standards.

- i. NTSC
- ii. PAL
- iii. SECAM
- iv. HDTV

(8 MARKS)

(b) Describe the following video compression terms.

- i.MPEG
- ii.DVI/indeo

(8 marks)

c) Explain the terms Mass media and Starage Media

(4 marks)

