



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)

