



**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)

