



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SCT 413: MULTIMEDIA SYSTEMS

DATE: Tuesday 17th April 2012

TIME:

2.00p.m – 4.00p.m

INSTRUCTIONS:

Answer question **ONE** and any other **Two**

Question one

- (a) Give four computer system medium. (4 marks)
- (b) Describe representation media as a class of media. (6marks)
- (c) Explain the global structure of a multimedia system. (6 marks)
- (d) Differentiate between lossy compression and lossless compression. (4 marks)
- (e) State and give the role of five devices that can be used in a multimedia production. (10 marks)

Question Two

- (a) Explain four major characteristics of multimedia systems. (8 marks)
- (b) Mention three types of audio in multimedia applications. (3 marks)
- (c) Differentiate between image processing and computer graphics. (4 marks)

Question Three

- (a) Define MIDI hence describe two MIDI components. (7 marks)
- (b) State and explain three speech effects. (8 marks)

Question four

(a) Define the following:

- (i) Hypertext
- (ii) Hypermedia
- (iii) Pixel
- (iv) Sound
- (v) Medium

(5 marks)

(b) Explain five uses of multimedia application in our daily life.

(10 marks)

Question five

(a) Using a suitable diagram, describe the data compression process.

(11 marks)

(b) State four major purposes of using text in multimedia applications.

(4 marks)