



**JARAMOGI OGINGA ODINGA UNIVERSITY
OF SCIENCE & TECHNOLOGY**

UNIVERSITY EXAMINATIONS 2012/2013

**3RD YEAR 1ST SEMESTER EXAMINATION FOR THE DEGREE
OF BACHELOR OF EDUCATION (ARTS AND SCIENCE) WITH
IT
MAIN**

COURSE CODE: SCS 310

COURSE TITLE: MULTIMEDIA AND GRAPHICS

DATE: 4 .5.2013 TIME: 9.00-11.00AM

DURATION: 2 HOURS

INSTRUCTIONS

- 1. This paper consists of 5 Questions.**
- 2. Answer Question 1 (Compulsory) and any other 2 questions**
- 3. Write your answers on the answer booklet provided**

QUESTION ONE

- a) Highlight **FOUR** characteristics of a multimedia system (12 Marks)
- b) List out the building blocks of multimedia. (12 Marks)
- c) State the components of a MIDI system (6 Marks)

QUESTION TWO

Differentiate the following terms as used in multimedia system;

- a) Lossless and lossy data compression (5 Marks)
- b) Hypertext and Hypermedia (5 Marks)
- c) List issues for Multimedia Systems (10 Marks)

QUESTION THREE

- a) Define the following terms;
 - i. Rasteration (3 Marks)
 - ii. Pixel (3 Marks)
 - iii. Frame Buffer (3 Marks)
 - iv. Authoring Tool (3 Marks)
- b) Highlight the features of a authoring tool (8 Marks)

QUESTION FOUR

- a) Highlight the desirable features of a multimedia system (12 Marks)
- b) Define the terms static media and dynamic media. Give two examples of each type of media. (4 Marks)
- c) Differentiate between GIF and JPEG (4 Marks)

QUESTION FIVE

Discuss the application areas of Hypermedia (20 Marks)