



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF BUSINESS AND ECONOMICS
UNIVERSITY EXAMINATIONS: 2013/2014
SCS 310: MULTIMEDIA AND GRAPHICS
BUSIA LEARNING CENTER**

**DATE: DECEMBER 2013
2 HOURS**

TIME:

INSTRUCTIONS:

Answer ALL QUESTIONS IN SECTION A AND ANY TWO FROM SECTION B

SECTION A (COMPULSORY - 30 Marks)

Question One

- a) State the issues and challenges that should be addressed in multimedia systems {12 marks}
- b) Outline the areas of hypermedia application {4 marks}
- c) Using appropriate examples , explain multimedia Authoring tools {6 marks}
- d) Define data stream and explain some of the most common transmission modes {8 marks}

Question Two

- a) Discuss the five components of multimedia illustrating what relevance each brings in communicating {10 marks}

Question Three

- a) Explain three types of frames in MPEG organizations {6 marks}
- b) Give a brief description of the term MIDI {2 marks}
- c) Discuss the MIDI devices {12 marks}

Question Four

- a) Using examples , discuss the requirements of multimedia (hardware and software) required for multimedia systems { 10 marks }
- b) Outline the advanced Multimedia coding standards { 10 marks }

Question Five

- a) Discuss the various animation tools and their functions { 8 marks }
- b) Explain three common ways to display animation { 6 marks }
- c) There are many ways of acquiring digital images that can be used in development of multimedia applications. Highlight some of these ways { 6 marks }