



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MATHEMATICS & PHYSICS

**UNIVERSITY EXAMINATION FOR:**

**BACHELOR OF SCIENCE IN STATISTICS & COMPUTER SCIENCE**

**EIT 4315 : MULTIMEDIA SYSTEMS**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE: Pick Date Apr 2016**

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. Attempt Choose instruction.

**Do not write on the question paper.**

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## Question ONE

- a) List and explain the types of multimedia systems (4 marks)
- a) Explain the desirable features of a Multimedia Systems (6 marks)
- b) Distinguish between the digital audio and analogue audio (4 marks)
- c) State at least 3 examples of a Multimedia Application (6 marks)
- a) Give a concise definition of multimedia (2 marks)
- d) Explain the Advantages and disadvantages of the Internet Telephony (6 marks).

## Question TWO

- a) What is a multimedia application (2 marks)
- b) Explain the term software and describe the different feature of the different classes of Software used in Multimedia systems (8 marks)
- c) Explain the term Digital subscriberline (4 marks)
- d) List and describe the different aspects of multicasting (6 marks)

## Question THREE

- a) Define Multimedia Compression and explain the application areas of Multimedia Compression (6 marks)
- b) Distinguish between the VoIP and the Internet Telephony (4 marks)
- c) Describe the concept of Authoring System and Identify 4 main types of an Authoring tool? (10 marks)

#### **Question FOUR**

- a) Explain the difference between the types of multimedia hardware systems you have studied (8 marks)
- b) List and explain at least 4 ways to create a digital image (8 marks)
- c) Explain the concept of Super nodes in Internet Telephony (4 marks)

#### **Question FIVE**

- a) What is multicasting (2 marks)
- b) Give a concise definition of Quality of Service (Qos) and explain the relevance of QoS in Multimedia Technology (10 marks)
- c) List and explain at least 4 ways to create a digital image (8 marks)