



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

SIT 201: MULTIMEDIA SYSTEMS

DATE: 7/5/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer **question ONE** and any other **TWO** questions.

QUESTION ONE (30 MARKS)

- a) Discuss ingredients for usability in multimedia. (4 marks)
- b) Explain reasons that set multimedia systems apart from other media systems. (6 marks)
- c) In my project I am considering MIDI over audio. Discuss **THREE** reasons why you think I chose MIDI. (6 marks)
- d) Explain Confidentiality, Integrity and Availability in relation to multimedia security. (6 marks)
- e) Define the term watermark as used in multimedia systems. (2 marks)
- f) List **THREE** methods of distributing Multimedia content. (3 marks)
- g) Distinguish between Video and Animation. (3 marks)

QUESTION TWO (20 MARKS)

- a) Multimedia has become a part of the society, thanks to advancement in computer technology. Discuss this supposition. (10 marks)

- b) Explain THREE attacks that can be launched against watermarked multimedia project. (6 marks)
- c) Explain giving examples to a layman why he needs multimedia compression. (4 marks)

QUESTION THREE (20 MARKS)

- a) Text is a sensitive element of multimedia. Discuss this statement giving relevant examples. (6 marks)
- b) Differentiate between Trimming and Splicing as used in multimedia. (4 marks)
- c) Explain FIVE skillsets needed to accomplish a multimedia project. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Distinguish between lossy and lossless compression. (4 marks)
- b) Discuss THREE intangible requirement of a multimedia project. (6 marks)
- c) Multimedia systems exhibit salient features. Discuss (8 marks)
- d) List two elements of multimedia. (2 marks)

QUESTION FIVE (20 MARKS)

- a) Outline and explain the steps you will take to ensure you have delivered a multimedia project. (8 marks)
- b) Discuss two animation techniques. (4 marks)
- c) Explain FOUR metaphors used in multimedia authoring. (8 marks)