

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION COMMUNICATION TECHNOLOGY

1ST YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: ICT 3215

COURSE TITLE: MULTIMEDIA TECHNOLOGY

EXAM VENUE: STREAM: ICT

DATE: EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 (Compulsory) and ANY other two questions
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

QUESTION ONE 30 MARKS

(a) Define the following terms	
i. Hypermedia	(3 Marks)
ii. Multimedia	(3 Marks)
iii. Hyperlink	(3 Marks)
iv. Hypertext	(3 Marks)
(b) Outline the areas of hypermedia applications	(4 Marks)
(c) Using appropriate examples, explain Multimedia Authoring Tools.	(6Marks)
(d) Define Data Stream and explain some of the most common transmission	on modes
	(4 Marks)
QUESTION TWO 20 MARKS	
(a) Why is file or data compression necessary for multimedia activities	(3 Marks)
(b) Using examples, discuss the components (Hardware and software) required for a	
multimedia system	(8 Marks)
(c) Identify and explain the current big application areas in Multimedia	(6 Marks)
(d) Discuss the challenges for multimedia systems	(3 Marks)
QUESTION THREE 20 MARKS	
(a) Give a brief definition of the term MIDI.	(4 Marks)
(b) State the areas of multimedia applications in Society.	(5 Marks)
(c) Discuss the five multimedia and data formats used	(5 Marks)
(d) Differentiate between Vector versus Bitmap	(6 Marks)
QUESTION FOUR 20 MARKS	
(a) Identify some of the imaging and editing tools	(6 Marks)
(b) Discuss the various animation tools and their functions	(6 Marks)
(c) The HSB color model is based on the human perception of color. Expl	ain the three
fundamental characteristics of color	(8 Marks)
QUESTION FIVE 20 MARKS	
(a) There are many fonts available, describe the five attributes often used for specifying	
font	(10 Marks)
(b) Explain the different ways to classify typefaces	(10 marks)