

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATIONS

THIRD YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR IN EDUCATION ARTS AND SCIENCE

SCS 310: MULTIMEDIA AND GRAPHICS

TIME: 2 HOURS

Instructions:

- I. This paper contains Five questions
- II. Question one is compulsory
- III. Answer any other two questions

QUESTION ONE 30marks

a)	Discuss the features of a multimedia authoring tools	(10 Marks)
b)	Describe eight hardware or software features that a Multimedia S	System should possess.
		(8 Marks)
c)	Define the following terms as used in multimedia system;	
	i. Bitmap Graphics	(3Marks)

		(01110)
ii.	Vector Graphics	(3 Marks)
iii.	Authoring tool	(3 Marks)
iv.	Data stream	(3 Marks)

QUESTION TWO 20 marks

a)	What key issues or problems does a multimedia system have to deal w	with when handling
	multimedia data?	(8 Marks)
b)) Distinction between lossless and lossy compression and describe the broad types of	
	multimedia data which are suitable for each category	(8 Marks)
c)	Explain the elements of a multimedia system	(4 Marks)

QUESTION THREE 20 marks

a)	Highlight the main facilities that must be provided in a system designed to support the	
	integration of multimedia into a multimedia presentation.	(8 Marks)
b)	Describe the FOUR types of authoring tools	(4 Marks)
c)	Discuss the application areas of Hypermedia	(8 Marks)

QUESTION FOUR 20 marks

a)	Identify the features of MIDI which make it suitable for multimedia applications. Briefly	
	justify your answer. And state the drawbacks of MIDI?	(12 Marks)
b)	Highlight FOUR characteristics of a multimedia system	(8 Marks)

QUESTION FIVE 20 marks

a)	Differentiate between the target media for JPEG and GIF compression	(4 Marks)
b)	State the advantages of arithmetic coding over Huffman coding for data com	pression

(8 Marks)

c)	Describe multimedia development cycle	(8 Marks)
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