

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 2K 11M/DIT 11M)

EIT 2207: MULTIMEDIA SYSTEMS & TECHNOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2013
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

Answer Booklet

This paper consist of FIVE questions

Ma Th	swer question ONE (COMPULSORY) and any other TWO questions ximum marks for each part of a question are as shown is paper consists of TWO printed pages testion One (Compulsory)								
a)	Define a Multimedia System.								
b)	List the core components of a multimedia system.								
c)	Explain how a codec functions.								
d)									
	 (i) Multimedia designer (ii) Scriptwriter (iii) Webmaster (iv) Graphic Designer 	(8 marks)							
e)	Explain the meaning of the following terms as used in multimedia technologies.	(3 marks)							
Qι	nestion Two								
a)	Explain the stages in a multimedia production.	(10 marks)							
b)	List the Advantages and Disadvantages of Musical Instrument Digital Interface (MI	OI) (10 marks)							
Qι	nestion Three								
a)	Characterize HDTV, SDTV and ITV.	(9 marks)							
b)	Explain any FOUR prerequisites that should be present if a multimedia based application is to capture the full attention of the market. (8 marks)								
c)	State THREE advantages of multimedia technologies.								
Qι	estion Four								
a)	Explain THREE issues in networked multimedia.	(6 marks)							
b)	Explain how data rate affects audio and video in relation to compressed and unco	mpressed data. (8 marks)							
c)	Explain the following propagation techniques: (i) Multicast (ii) Unicast (iii) Broadcast	(6 marks)							
Qι	nestion Five								
a)	Explain the following properties of Text (i) Leaching (ii) Kerning (iii) Dithering (iv) Tracking	(8 marks)							
b)	(i) Differentiate between Lossy and Lossless compression.	(4 marks)							

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(ii) Explain any methods.	TWO tec	chniques f	or audio	compression	for	each	of the	above	two	compression (8 marks)