



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR FOUR SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE **COMPUTER SCIENCE**

COURSE CODE

: CSC 471E

COURSE TITLE :

MULTIMEDIA

TECHNOLOGIES

DATE: 15/06/2021 TIME: 02:00 P.M - 04:00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE [COMPULSORY] [30 MARKS]

a. Illustrate your understanding of the advancements brought about by Multimedia	to the traditional
[4 Marks]	
media b. i. Differentiate between Hypertext and Hypermedia	[4 Marks]
ii. Give four characteristics of Multimedia that make it distinct from other media	[4 Marks]
c. Show your understanding of the following multimedia terms:	
i. Synchronization devices	[2 Marks]
ii. Multimedia platform	[2 Marks]
iii. Authoring Software	[2 Marks]
iv. Professional Multimedia Development Tools	[2 Marks]
d. Interpret to your colleague the role played by interaction devices in multimedi	ia [4 Marks]
	[2 Marks]
e. i. What is Beta testing? What are the advantages of using the above testing method over any other?	[4 Marks]
QUESTION TWO [20 MARKS]	
	[10 Marks]
a. Elaborate on five (5) advantages of using multimedia.	[1 Mark]
b. i. What are analog media devices?	
ii. With relevant examples, describe three categories of analog media devices	[9 Marks]
QUESTION THREE [20 MARKS]	
a. Compile various roles that authoring software play in the development of e-	learning materials
	[5 Marks]
and content.	[4 Marks]
b. i. Describe two types of text	[4 Marks]
ii. Differentiate between font and typeface	

iii.	Show your understanding of the following font terminologies	
	Kerning	[1 Mark]
	Baseline	[1 Mark]
	x-height	[1 Mark]
	Leading	[1 Mark]
	Ascenders	[1 Mark]
	Serif	[1 Mark]
	Tracking	[1 Mark]
	QUESTION FOUR [20 MARKS]	
a.	Illustrate the distinction that exists image resolution, display resolution	and color resolution
		[6 Marks]
b.	Describe six categories of image processing techniques	[12 Marks]
c.	What are sound waves? How does the human mind receive sound?	[2 Marks]
	QUESTION FIVE [20 MARKS]	
a.	Discuss three reasons for sound not being left out in the creation of mul	timedia content.
		[6 Marks]
b.	Describe three types of analog video signal	[6 Marks]
c.	Calculate the video file size of a documentary with the following:	
	Duration=10 mins	
	Frame rate=25 fps	
	Frame size=160 by 120	
	Colour resolution=8-bit	
	Give answer in MB	[4 Marks]
d.	Describe four user interface tips you will give to your friend who wants	s to become a graphics
	esigner	[4 Marks]