

(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS YEAR THREE SEMESTER TWO

FOR THE DEGREE OF BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE

: BIT 325

COURSE TITLE

: MULTIMEDIA TECHNOLOGIES

DATE: 04/02/2021

TIME: 2.00 P.M. - 4.00 P.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSARY) [30 MARKS]

	Discuss three characteristics of multimedia products in computing	[6 marks]
a.	Discuss three characteristics of materials of puthoring software in multimedia	[4 marks]
b.	Explain the role of role of authoring software in multimedia	[6 marks]
c.	Briefly compare and contrast bitmap and vector graphics.	[4 marks]
d	Distinguish between these two concepts of Multimedia and Hypermedia	
0	Justify the importance of file or data compression in Multimedia activities.	[3 marks]
C.	With examples distinguish between static media and dynamic media.	[3 marks]
t.	Briefly explain any TWO special effects that may be used in video production	n. [4marks]
g.	Briefly explain any TWO special effects that may be used in video products	

OUESTION TWO [20 MARKS]

79	Describe streaming as used in multimedia.	[4 marks]
a.	Describe streaming as used in markle aloggified into two broad categories. I	Briefly
b.	Digital Compression Methods can be classified into two broad categories. I	[6 marks]
	describe the TWO categories.	multimedia
	Discuss the ethical issues that need to be considered in the development of	T III III
	application/product. Discuss THREE major challenges that may be experienced in the usage of	multimedia in
a.	teaching and learning.	[6 marks]

QUESTION THREE [20 MARKS]

	Define sampling as used in sound production	[I mark]		
a.	Define sampling as used in sound product AA 1 LUz stored music	[3 marks]		
b.	Calculate the size of a 30 seconds 16-bit, 44.1 kHz stereo music.	[6 marks]		
0	Briefly explain THREE factors that affect the quality of the sound.			
1	D' THOEF sound editing operations.	[6 marks]		
d.	Discuss any THREE sound coming operation (Hint: include a	e advantages and		
e.	Discuss the integrating of video into a multimedia presentation. (Hint: include a	[4 marks]		
	disadvantages)	[4 marks]		

QUESTION FOUR [20 MARKS]

- A multimedia company has been commissioned to develop a promotional video for a famous tourist attraction.
 - i. Outline factors that can affect sound quality when creating the video. [3 marks]
 ii. Identify and describe a video transfer protocol that may be used to download the video from a website. [3 marks]
 - iii. Describe the ethical issues that will need to be considered by the multimedia company in developing the video. [4 marks]
- b. Compare and contrast graphics and images as used in multimedia. {Hint: you consider format, input, editing, storage (file & capacity) among others attributes} [10 marks]

QUESTION FIVE [20 MARKS]

	Briefly discuss the key features a multimedia authoring tool should provide	[4 marks]
a.	Briefly discuss the key leatures a material deal with	[4 marks]
b.	Suggest they key issues multimedia systems need to deal with.	[6 marks]
	D: G. diagramy THPFF desirable teatures for a multillicula system.	
C.	Briefly discuss digital media devices in terms of capturing, processing and pr	esentation
d.	Briefly discuss digital media devices in terms of capturing, processing	[6 marks]
	devices	[o marks]