NATIONAL OPEN UNIVERSITY OF NIGERIA, PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA FACULTY OF SCIENCES 2022\_2 EXAMINATION

Reference Revealed Street Reve

COURSE CODE: CIT735 COURSE CREDIT: 3 COURSE TITLE: APPLICATION SOFTWARE DESIGN AND MULTIMEDIA TIME ALLOWED: 2<sup>1</sup>/<sub>2</sub> HOURS INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3) QUESTIONS

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(i h 1b (i) (ii) (iii 1c (i) (ii)	Wite down any four (4) benefits of the Multimedia system? (4 mar i) State any two multimedia development tools that may be used to create ypermedia applications (3 marks) What are the challenges of Multimedia system design? (3 marks) Briefly describe the two components of CODEC (3 marks) Explain the concept of persistence of vision in video and animation What is the basic goal of Human-Computer Interaction (3 marks) Differentiate between Contiguity Principle and Multimedia Principle splain the concept of Rhetorical situation in the context of the user-centre	e stand-alone (2 marks) (4 marks)
2a 2b 2c	State the essential features of multimedia computer components. (2 marks) What are the four basic characteristics of multimedia system? (4 marks) Each DVD-ROM discs is divided into six sections, briefly describe these sections (6 marks)	
2d.	Explain the notion of body-storming (3 marks)	
		[15 marks]
3a 3b 3c.	Briefly explain the components of a multimedia editing software (6 marks)	
		[15 marks]
4a 4b	Highlight the software tools that enable you to capture streaming medi form into another <b>(6 marks)</b> Write short notes on the following text attributes	ia and convert it from one
4c.	(i) Font Type(ii) Font Style(iii) Font Size(6 marks)Distinguish between podcast and vodcast(3 marks)	

[15 marks]

## 1

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- 5a The YUV color code is widely used in encoding colour for use in television and video. Explain the concept of YUV Colour Model **(6 marks)**
- 5b State the colour palette of the RAINBOW colours in RGB and hexadecimal code. *(6 marks)*
- 5c. E-Learning has been found to be beneficial for facilitating learning in schools and has the potential to support higher content retention. Give a reason to justify this. (3 marks)

[15 marks]

- 6a With the aid of a relevant diagram only, explain the Architecture of Video Capture Card in multimedia applications *(6 marks)*
- 6b The Motion Picture Expect Group (MPEG) is a working group within the International Standard Organization (ISO) targeted at entertainment video. Explain three versions of MPEG standard

(6 marks)

6c. Describe the focus group within the context of the user-centred design. (3 marks)

[15 marks]

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