



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR FOUR SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF (COMPUTER SCIENCE)

COURSE CODE : CSC 471 E
**COURSE TITLE : MULTIMEDIA
TECHNOLOGIES**

DATE: 18/05/2022 TIME: 09:00 A.M – 11:00 A.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

- a. Why are text, graphics/drawings and images referred to as traditional media? [3 Marks]
- b. Multimedia cannot work without computers. Why are computers indispensable when dealing with Multimedia? [3 Marks]
- c. i. With the aid of an example differentiate between linear and non-linear multimedia presentation [4 Marks]
- ii. With the aid of examples differentiate between Sinks and filers. [4 Marks]
- d. i. Give two reasons for a multimedia developer need for a library of clip art, music and video in the line of work [2 Marks]
- ii. Give four roles of authoring software when developing multimedia [4 Marks]
- e. Discuss four classification of fonts as used in multimedia [4 Marks]
- f. Differentiate between pictures and images [2 Marks]
- g. Describe four disadvantages of using bitmap graphics in multimedia [4 Marks]

QUESTION TWO [20 MARKS]

- a. Elaborate on four ways of using multimedia in the education sector. Two for teachers and two for students. [4 Marks]
- b. With examples, describe four disadvantages of using multimedia [8 Marks]
- c. As a computer science graduate contrast delivering multimedia in CD based media and through web based. You can use a table [6 Marks]
- d. What are synchronization devices? State their importance in multimedia [2 Marks]

QUESTION THREE [20 MARKS]

- a. Describe in detail the four stages of multimedia development. [12 Marks]
- b. i. Demonstrate your understanding of serif and sans serif [2 Marks]
- ii. With reasons, state the type of font best used for:
- (I) Computer display [2 Marks]
- (II) Print media [2 Marks]
- c. What is RGB color scheme? Give its importance in multimedia [2 Marks]

QUESTION FOUR [20 MARKS]

- a. Illustrate the distinction that exists in rasterization, jaggies and anti-aliasing [6 Marks]
- b. i. Distinguish between pop up messages and drop down boxes [4 Marks]
- ii. What do they have in common? [2 Marks]
- c. Show your understanding of the term “display resolution” [4 Marks]
- d. Differentiate between grayscale and binary images. State two characteristics of each. [4 Marks]

QUESTION FIVE [20 MARKS]

- a. i. What is subtractive mixing? [2 Marks]
- ii. Describe how it works and where it is used [4 Marks]

- b. What is colour dithering and why is it important in multimedia? [4 Marks]
- c. Describe four ways in which the size of a video file can be reduced [4 Marks]
- d. Describe three advantages of computer based digital video [3 Marks]
- e. Show your understanding of three types of analog video signals [3 Marks]