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**KENYA METHODIST UNIVERSITY**

**END OF FIRST TRIMESTER 2018 (PT) EXAMINATIONS**

**SCHOOL : SCIENCE AND TECHNOLOGY**

**DEPARTMENT : COMPUTER SCIENCE**

**COURSE CODE : BBIT 431/CISY 426**

**COURSE TITLE : MULTIMEDIA SYSTEMS**

**TIME : 2 HOURS**

**INSTRUCTIONS:**

* ***Answer Question ONE and any other TWO Questions.***

**Question One**

1. Define (6 Marks)
2. multimedia
3. hypermedia
4. sample rate
5. Distinguish the following terms with examples
6. static medium (2Marks)
7. dynamic medium (2Marks)
8. Name five major factors to be taken into account when considering what storage requirements are necessary for a multimedia storage system (5 Marks)
9. A media editor laptop was confiscated at the airport. In the laptop were different types of multimedia file formats.
10. Give two examples of audio file formats likely to be in the laptop (2Marks)
11. Give two examples of image file formats likely to be in the laptop(2Marks)
12. Give two examples of video file formats likely to be in the laptop (2Marks)
13. Briefly discuss the following types of the animation techniques that could be used in creating the animation (9Marks)
14. Cell animation
15. Morphing
16. Kinematics

**Question Two**

a) List any five sound editing operations (5Marks)

b)Define the following (5Marks)

1. Leading
2. Serif

c) Briefly explain lossless compression and their techniques of compression.

(10 Marks)

**Question Three**

a) Using Huffman coding compress the string below

SWEETIES (10 Marks)

b)Explain data transmission media in multimedia networks (10 Marks)

**Question Four**

a) Explain the following terms in sound with diagrams

1. Amplitude (2 Marks)
2. Frequency (2 Marks)
3. Analog sound (3 Marks)
4. Digital sound (3 Marks)

b) What are the disadvantages of MIDI (5 Marks)

c) Write a note on color palettes (5 Marks)