

W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

**YEAR II SEMESTER II EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY**

**DIT 0415: MULTIMEDIA APPLICATIONS**

**DATE: APRIL 2017 TIME: 1 ½ HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE**

1. What are the differences between;
2. Linear Vs Non- Linear multimedia project
3. Lossless Vs Lossy compression. [8 marks]
4. What is the importance of multimedia in the following fields;
5. Business
6. Education
7. Internet and entertainment
8. Home
9. Public places. [10 marks]
10. List at least five benefits of multimedia. [5 marks]
11. Highlight at least four characteristics of a multimedia system [4 marks]
12. What are some of the examples of multimedia applications? Highlight atleast three. [3 marks]

**QUESTION TWO**

User interface is a program that provides an interface for human to interact with the system. What are the main eight principles of a user interface? Explain them. [15 marks]

**QUESTION THREE**

What is MIDI? What are its components and its hardware aspects? Highlight hardware concepts using a diagram. [15 marks]

**QUESTION FOUR**

1. What is the difference between bitmap, image resolution, and dithering in image data representations? [9 marks]
2. Discuss the three authoring tools concept i.e
3. Time frame concept
4. Icon concept
5. Card concept [6 marks]

**QUESTION FIVE**

Identify the editing software that can be used to produce the following multimedia elements;

1. Text editor
2. Graphics and image editor
3. Audio editor
4. Video editor
5. Animation editor. [15 marks]