JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION

3RD YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

INSTITUTIONAL BASED

COURSE CODE: SCS 310

COURSE TITLE: MULTIMEDIA GRAPHICS

EXAM VENUE: STREAM: EDUCATION

DATE: EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

1. **Answer Question 1 (Compulsory) and ANY other two questions**
2. **Candidates are advised not to write on the question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE (30 MARKS):

(a) Differentiate between:
   i.   linear and non-linear multimedia categories **(2 marks)**
   ii.   Hypertext and hypermedia **(2 marks)**
   iii. ROM and RAM **(2 marks)**

(b) Discuss any **two** text format? **(6 marks)**

(c) Write the following acronyms in full as use in multimedia:
   i.   DVD **(1 mark)**
   ii.   CD-ROM Players**(1 mark)**

(d) Define Image Processing and discuss **three** steps involved in image processing? **(7 marks)**

(e) Identify the features of MIDI which make it suitable for multimedia applications. Briefly justify your answer. And state the drawbacks of MIDI? **(6 marks)**

(f) Highlight any **three** basic characteristic of multimedia? **(3 marks)**

QUESTION TWO (20 MARKS)

(a) State any **four** evolving technologies of Multimedia? **(4 marks)**

(b) Using examples distinguish between analog and digital data? **(4 marks)**

(c) Discuss the acronym JPEG? **(4 marks)**

(d) School of Informatics and Innovative System in JOOUST University wishes to start up a profit generating business that will be producing multimedia products. State and explain desirable features that the school must consider for its multimedia system business? **(8 marks)**

QUESTION THREE (20MARKS)

(a) State at least **eight** guidelines to be used when choosing a font for multimedia presentation? **(8 marks)**

(b) List any **five** Graphics and Image editing tool? **(5marks)**

(c) List any **seven** Digital Audio File Formats. Remember to include both the acronym and full name? **(7 marks)**

QUEATION FOUR (20 MARKS)

(a) There are many ways of acquiring digital images that can be used in development of multimedia applications. Highlight some of these ways? **(6 marks)**

(b) Discuss by giving examples how multimedia is used in education sector**? (6 marks)**

(c) Define Data Stream and explain some the most common transmission modes? **(8 marks)**

QUESTION FIVE (20 MARKS)

(a) Multimedia presentations creation entails; planning, preparation, practice and presentation. Briefly discuss processes involved in planning? **(8 marks)**

(b) Write following acronyms are formats of multimedia write them in full **(6 marks)**
   i.   **TIFF**

ii. **DIB**
iii. **GIF**
iv. **AVI**
v. **MPEG**
vi. **TGA**

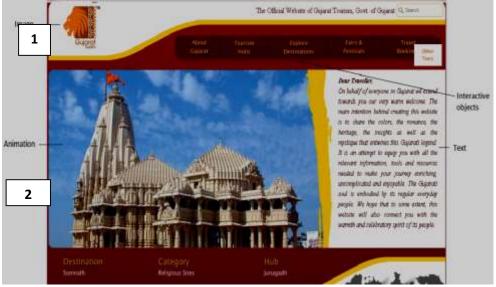**(c)** Study the **diagram 1** below and list multimedia elements you are able to see in 1, 2, 3 and 4? **(4 marks)**

Diagram 1

(d) Define the term Interactive multimedia? **(2 marks)**

- **END -**