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University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

FOR THE DIPLOMA

IN

INFORMATION TECHNOLOGY

COURSE CODE: DIT 092

COURSE TITLE: GRAPHICS DESIGN

DATE: 13/04/2023 **DATE:** 08:00-9:30AM

INSTRUCTIONS TO CANDIDATES

Answer **Questions ONE** and **ANY OTHER TWO**.

TIME: 1HR 30MINS

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

QUESTION ONE (24MKS)

a. Define the term computer Graphic design **[2mks]**

b. Describe the basic elements that are majorly used in graphic design **[6mks]**

c. Elaborate four areas where computer graphics is heavily applied **[8mks]**

d. Using a clear diagram, explain how the Raster scan is implemented in computer graphics **[8mks]**

QUESTION TWO (18MKS)

a. Define the following terms as used in computer animations

i. Shearing **[2mks]**

ii. Rotation **[2mks]**

iii. Reflection **[2mks]**

iv. scaling **[2mks]**

b. Using a clear diagram, explain how the Cathode Ray tube (CRT) works. **[8mks]**

c. Explain two application areas where computer graphics is heavily used **[2mks]**

QUESTION THREE (18MKS)

a. List and explain FOUR basic graphic design principles. **[4mks]**

b. Layout enhances the usual appearance of design. Describe the different types of layout. **[4mks]**

c. Explain the following terms as used in graphic design **[10mks]**

Active colors

Passive colors

Analogous colors

Complementary colours

Colour wheel

QUESTION FOUR (18 MKS)

a) Define the following terms **[3mks]**

i. Animation

ii. Algorithm

iii. Pixels

b) Using a clear diagram, explain how the Raster scan is implemented in computer graphics **[12mks]**

c)Explain what you understand by the term typography, how it is used in graphic design. **[3mks]**

QUESTION FIVE (18 MKS)

a. Explain 4 areas where computer fractals are applied in computer graphics **[8mks]**

b. Define the term computer algorithm **[2mks]**

c. Describe the 5 fundamentals of graphic design. **[8mks]**