JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR SCIENCE IN SECURITY AND FORENICS
$4^{\text {TH }}$ YEAR $2^{\text {ND }}$ SEMESTER 2014/2016 ACADEMIC YEAR

SPECIAL RESIT

MAIN CAMPUS

COURSE CODE: IIT 3416

COURSE TITLE: COMPUTER GRAPHICS
EXAM VENUE:
STREAM: BSc SEC \& FORE

EXAM VENUE: LAB 1
DATE: 04/05/16
EXAM SESSION: 2.00-4.00 PM
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 1 [30 marks]

a) Define the following terms:
i) Computer graphics.
ii) Computer animation
iii) Graphics system
iv) Text clipping
b) Briefly discuss important applications in computer graphics
c) Discuss the hardware devices used for computer graphics?
d) State the complementary colors used in Computer graphics
e) Color perception usually involves three quantities, list these quantities
f) Outline three kinds of transformations in computer graphics

## Question 2 [20 marks]

Using example(s) discuss any ten applications of Computer graphics of the modern world

## Question 3 [20 marks]

Discuss different types of computer animation techniques.

## Question 4 [20 marks]

a) There are three basic classes of transformations: Giving an example, briefly list and explain
b) Briefly explain any three display technologies
c) Outline any four line drawing algorithms
d) Briefly discuss texture mapping?

## Question 5 [20 marks]

With an aid of a diagram, explain the working of Cathode Ray Tube (CRT)

