



**JARAMOGI OGINGA ODONGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE

**1ST YEAR 1ST SEMESTER
(DECEMBER 2016)**

COURSE CODE: SCS 101

COURSE TITLE: INTRODUCTION TO COMPUTER APPLICATIONS

EXAM VENUE:

STREAM: E-LEARNING

DATE :

EXAM SESSION:

TIME : 2 HRS

Instructions:

- 1. Answer all questions in Section A and any other 2 questions in Section B**
- 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**

SECTION A

QUESTION 1 (30 Marks)

- a) Define the following
 - i. animation
 - ii. Multimedia (2 marks)
- b) Explain the function of the following computer components
 - i. Arithmetic/Logic unit
 - ii. Control unit(4 marks)
- c) Describe **two** ways in which computer viruses are spread from one computer to another. (4 marks)
- d) Discuss four factors to consider in purchasing a computer hardware. (10 marks)
- e) Explain the various advantages and uses of computers in organizations. (10 marks)

SECTION B

QUESTION 2 (20 MARKS)

- a) Distinguish between the following as used in IT environments
 - i. Hardware and Software (2 marks)
 - ii. Mainframe and Minicomputers (2 marks)
 - iii. RAM and ROM (2 marks)
 - iv. Files and folders (2 marks)
 - v. Data and information (2 marks)
- b) Explain the purpose of a computer network in an organization. (10 marks)

QUESTION 3 (20 MARKS)

- a) Explain the importance of the following applications to individuals,
 - i. Ms Word
 - ii. Ms PowerPoint (6 marks)
- b) Information technology plays a vital role in enhancing socio-economic development of our country. Discuss three ways through which ICT can positively influence national development. (8 marks)
- c) Explain any three challenges that an organization may face when or after adopting ICTs. (6 marks)

QUESTION 4 (20 MARKS)

- a) Discuss three advantages of the Internet. (6 marks)
- b) State the importance of the following on the Internet

- i. Search engines
 - ii. Email services
 - iii. World Wide Web (6 marks)
- c) Based on end user license there are four basic types of software; commercial, shareware, open source and freeware. Briefly describe these software's. (8 marks)

QUESTION 5 (20 MARKS)

- a) Briefly describe the following
 - i. System Software
 - ii. Application Software
 - iii. Programming languages (6 marks)
- b) Differentiate between the following terms as used in computer system and organization (4 marks)
 - i. Impact and non-impact printer
 - ii. Analog computers and digital computer
- c) Explain three application areas of computers in health and education (10 marks)