



JARAMOGI OGINGA ODINGA UNIVERSITY OF  
SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

DIPLOMA IN LINUX ENGINEERING

COURSE CODE: ICT 2111

COURSE TITLE-INTRODUCTION TO COMPUTER APPLICATIONS

EXAMINATIONS 2012/2013

TIME 2HRS

INSTRUCTIONS:

- 1) This paper contains five (5) questions.
- 2) Question ONE is Compulsory and any other TWO questions
- 3) Write the answers in the booklet provided

### Question one 30 marks

- a. Define a computer (2mks)
- b. Describe **three** components of a computer system. (6mks)
- c. Differentiate between softcopy and hard copy (4mks)
- d. Describe **five** functions of the operating system. (10mks)
- e. Using a diagram describe the hardware components of a computer system. (8mks)

### Question TWO 20 marks

- a. Describe the **three** types of relationships as applies to databases (6mks)
- b. Distinguish between **landscape** and **Portrait** orientation as applies to Ms Word. (2mks)
- c. Below is an extract from a students database.

RegNo	Student Name	Course Name	Date Registered	Amount Paid
EPD/123/11	Mathew	Electrical Engineering	04/05/2012	25000.00
ICT/4563/11	Joan	Information communication	07/06/2012	35000.00
ICT5321/11	George	Information communication	09/08/2012	40000.00
MVD/134/11	Janet	Motor Vehicle engineering	02/04/2013	20000.00
CPD/589/11	Rael	Co-operative Management	06/07/2013	8000.00

(i) State with reasons the most suitable data types for the following fields (8mks)

- a. RegNo
- b. Date Registered
- c. Amount Paid
- d. Course name

(ii) Name the most appropriate primary key for the above table. (1mks)

(iii) Describe how information about students who registered after 02/04/2013 can be obtained from the database. (3mks)

**Question THREE 20 marks**

- (i) Distinguish between a **function** and a **formula** as used in spreadsheets. (2mks)
- (ii) State any **four** tools found in the toolbar of a DTP package and state there function. (8mks)
- (iii) Describe **three** differences between a flat paneled screen and a CRT(6mks)
- (iv) State any **four** operations you can perform on email after reading it. (4mks)

**Question FOUR 20 marks**

- a. Name **two** files commonly used in mail merge (2mks)
- b. Name and explain the **two** types of dropcaps (4mks)
- c.

	A	B	C	D
	ITEM	PRICE	NO. ORDERED	COST
1	Modem	8565.00	60	
2	Ram	5000.00	10	
3	processor	13500.00	40	
4			Total	
5			Average	

- a. Write the formula that would be used in (3mks)
  - i. D2
  - ii. D4
  - iii. D5
- d. Discuss **five** areas where computers can be used in applied. (10mks)
- e. State the purpose of a hard disk in a computer system (1mk)

**Question FIVE 20 marks**

- (i) Based on end user license there are four basic types of software; commercial, shareware, open source and freeware. Briefly describe these software's. (8mks)
- (ii) Name any **two** antivirus programs that you are familiar with. (2mks)
- (iii) List **three** areas where computers can be used. (3mks)
- (iv) Outlook is a program used for what purpose? (1mk)
- (v) Explain **four** ways in which computer viruses are spread from one computer to another. (4mks)
- (vi) Give **two** reasons why an antivirus package should be updated regularly (2mks)