

Name: _____ Index No: _____

2920/101

Candidate's Signature : _____

**INTRODUCTION TO INFORMATION
COMMUNICATION TECHNOLOGY AND ETHICS**

Date: _____

July 2015

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE 1

INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS

3 hours

INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above.

Sign and write the date of examination in the spaces provided above.

*Answer any **FIVE** of the following **EIGHT** questions on the spaces provided on the question paper.*

Candidates should answer the questions in English.

For Examiner's Use Only

Questions	1	2	3	4	5	6	7	8	Total Score
Candidate's Score									

This paper consists of 14 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

1. (a) Outline **four** advantages of secondary storage media over primary storage media in computer systems. (4 marks)

(b) With the aid of a diagram in each case, explain the difference between *COM* and *VGA* computer ports. (6 marks)

(c) Distinguish between *device driver* and *storage drive* as used in computer software. (4 marks)

- (d) Paul attended a seminar that focused on the measures computer users could adopt in order to conserve the environment. Explain **three** of the measures that could have been discussed. (6 marks)

2. (a) Define each of the following terms as used in ICT and ethics:

(i) service pack; (2 marks)

(ii) copyright. (2 marks)

- (b) Sigils high school intends to introduce Internet facilities for students' academic work. Explain **three** negative impacts that the students could be exposed to. (6 marks)

- (c) Distinguish between *open* and *limited* tender methods of computer hardware acquisition. (4 marks)

- (d) Kelvin suggested to her company that they should procure software suites. Explain **three** benefits that the company could derive from the use of this software. (6 marks)

3. (a) Outline **four** roles of a systems analyst in an organization. (4 marks)

- (b) Jemy chose to purchase a laser printer over the ink jet printer for her company. Explain **three** reasons for the choice. (6 marks)

(c) Distinguish between *Wi-Fi* and *bluetooth* as used in computer networks. (4 marks)

(d) Sasha, the college counselor, was attending to a student who suffers from a low self-esteem disorder. Explain **three** ways she could use to guide the student. (6 marks)

4. (a) Outline **four** measures that should be put in place to enhance data security in a computer system. (4 marks)

- (b) Explain **two** methods that could be used to manage stress among employees in an organization. (4 marks)

- (c) Zippy prefers to install a country wide wireless communication network over the wired media. Explain **three** circumstances that could have led to her preference. (6 marks)

- (d) Dimity school has a conflict concerning a property they co-owned by another company. Dan has been hired as an arbiter for the school. Explain **three** skills that he could require in order to perform the task. (6 marks)

5. (a) Outline the circumstance under which each of the following options could be the most applicable during software installation:

(i) upgrade:

(2 marks)

(ii) repair.

(2 marks)

(b) Purity has been appointed as the factory manager of ABC Company. Explain to her three practices she could put in place to manage her time. (6 marks)

(c) Distinguish between *broadcast* and *point-to-point* as used in computer networks. (4 marks)

- (d) The manager of Zax Company established that two of the company secretaries could not speak to each other. Explain **three** measures that the manager could use to help resolve the differences. (6 marks)

6. (a) Define each of the following terms as used in computer ethics:
(i) electronic eavesdropping; (2 marks)

- (ii) digital divide. (2 marks)

- (b) Describe the functions of each of the following types of buses as used in computers:
(i) data bus; (2 marks)

(ii) address bus.

(2 marks)

(c) Computer users experience different physical injuries during work. Explain **three** of these injuries with a possible remedy for each. (6 marks)

(d) Magdalena has been invited by Super College to give a lecture on the measures that could be used to control unethical ICT behaviour at workplaces. Explain **three** measures that she could mention. (6 marks)

7. (a) Explain **two** advantages of *direct* data inputs over *indirect* data inputs methods. (4 marks)

(b) Ken had the following devices when revising for an exam
Mouse, monitor, scanner, printer, plotter, joystick, speakers, trackball
Classify them as either input or output device. (4 marks)

(c) Kim the Information Manager for Sippar Company advised the organization to prepare an ICT policy. Explain **three** circumstances that could have influenced his decision. (6 marks)

- (d) Gova intends to purchase computers for his company. Explain **three** factors that he should consider. (6 marks)

8. (a) Explain the term *corporate social responsibility* as used in computer ethics. (2 marks)

- (b) (i) Explain **two** factors that are usually considered when accessing data on a hard disk. (4 marks)

- (ii) With the aid of an example in each case, distinguish between *general* and *special* purpose software. (4 marks)

- (c) A company that deals with the production of music for different clients has realized that piracy is a great threat to their growth. Explain **three** measures that they could put in place to counter this threat. (6 marks)

- (d) There has been an increased use of mobile phones globally. Explain any **two** social negative effects to the users. (4 marks)
