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Name: \_\_\_\_\_ Index No. \_\_\_\_\_

2920/101 Candidate's Signature: \_\_\_\_\_

INTRODUCTION TO ICT AND ETHICS Date: \_\_\_\_\_

July 2013

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE I

INTRODUCTION TO ICT 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 eight questions in the spaces provided after each question.*

**For Official Use Only**

Question	1	2	3	4	5	6	7	8	Total Marks
Marks									

This paper consists of 12 printed pages.

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

1. (a) Outline **four** disadvantages of a *microfilm* output as used in data processing. (4 marks)

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- (b) (i) Define the term *ethics* as used in Information Communication Technology. (2 marks)

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- (ii) Outline **two** ways that could be used to enforce ethics in Information Communication Technology industry. (2 marks)

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- (c) Jostling Company Ltd intends to incorporate the *cloud computing* technology in its operations. Explain **three** benefits that the company is likely to derive from this technology. (6 marks)

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- (d) (i) Distinguish between *personal responsibility* and *corporate social responsibility* as used in ICT and ethics. (4 marks)

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- (ii) The following is a list of storage devices:

- Hard disk
- DVD
- Diskette
- Compact disks

Classify them under either magnetic or optical devices. (2 marks)

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2. (a) Define each of the following terms as used in computer networks:

(i) extranet; (2 marks)

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(ii) intranet. (2 marks)

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(b) Distinguish between *peer-to-peer* and *client-server* as used in computer networks. (4 marks)

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(c) With the aid of an example in each case, explain how each of the following would affect the output of employees in an organization:



- (c) Kudu intends to acquire a printer using the *lease* method. Explain **three** circumstances that may have contributed to this method of acquisition. (6 marks)

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- (d) (i) Gorges, an architect intends to acquire a hardcopy output device for his design work. Justifying your answer, state the most appropriate output device that he would choose. (2 marks)

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- (ii) Cultic College intends to set up a computer laboratory for its students. Explain **three** factors that the college should consider when setting up the laboratory. (6 marks)

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4. (a) (i) Explain the term *data bus* as used in Information Communication Technology. (2 marks)

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- (ii) With the aid of an example, describe the term *procrastination* as used in time management. (4 marks)

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- (b) Explain **two** roles of a *computer programmer* in an organization. (4 marks)

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- (c) Distinguish between *super computer* and *main frame* computer as used in Information Communication Technology. (4marks)

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- (d) June, a college counselor has noticed frequent quarrels among her colleagues in the staffroom. Explain **three** Conflict Management strategies that she should institute to reduce the levels of quarrelling. (6 marks)

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5. (a) Explain the contribution of each of the following persons to the development of computer technology:

(i) Charles Babbage; (2 marks)

(ii) Blaise Pascal. (2 marks)

(b) Explain **two** advantages of *integrated software* to an organization. (4 marks)

(c) An international bank intends to minimize environmental pollution that might result from its ICT equipment. Explain **three** strategies that the bank could adopt. (6 marks)

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(d) With the aid of a diagram, describe a metropolitan area network. (6 marks)

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6. (a) Outline **two** functions of an *Uninterruptible Power Supply* as used in a computer laboratory. (4 marks)

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(b) Differentiate between *open architecture* and *closed architecture* as used in computers. (4 marks)

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(c) Joy prefers a laser printer to a dot matrix printer for her personal use. Explain **three** reasons that may have influenced to her preference. (6 marks)

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- (d) Cytex Company intends to purchase new computer RAM modules. Advise the procurement team on **three** factors that they should consider. (6 marks)

- 7 (a) Outline **four** examples of *utility programs* as used in computers. (2 marks)

- (b) (i) Distinguish between *preventive* and *reactive* conflict management techniques as used in ICT. (4 marks)





