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Name: \_\_\_\_\_ Index No: \_\_\_\_\_ / \_\_\_\_\_

2920/202A  
COMPUTER APPLICATIONS II (Theory)  
Paper 1  
November 2013  
Time: 2 hours

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



THE KENYA NATIONAL EXAMINATIONS COUNCIL

**DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY  
MODULE II**

COMPUTER APPLICATIONS II (Theory)

**Paper 1**

**2 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.  
This paper consists of SIX questions.  
Answer any FOUR questions on the spaces provided in this question paper.  
Candidates should answer the questions in English*

**For Examiners Use Only.**

Question	1	2	3	4	5	6	Total Score
Candidate's Score							

**This paper consists of 7 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) Describe the concept of *going concern* as used in accounting. (2 marks)

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(b) State **three** elements of *vector data* as used in GIS. (3 marks)

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(c) Arthur intends to procure a computer to be used for a Turing test during an artificial intelligence practice session. Explain **three** properties that the computer should possess. (6 marks)

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(d) Explain **two** sources of spatial data in GIS. (4 marks)

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2. (a) Define the term *geo-statistics* as used in GIS. (2 marks)

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(b) Abel intends to identify the shortest distance between four towns in his county using a search method. Outline **three** factors that he should consider when choosing a search method in artificial intelligence. (3 marks)

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(c) With the aid of sketches, describe the following types of dimensions as used in CAD applications: (6 marks)

(i) aligned;

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(ii) baseline;

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(d) Differentiate between *asset value* and *liability balances* as used in accounting programs. (4 marks)

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3. (a) Cora prepares accounting information for her business using various financial statements. Outline **three** uses of this information to her business enterprise. (3 marks)

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(b) Describe *three* components of *logic* as used in artificial intelligence. (6 marks)

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- (c) Rachel a researcher was investigating the spread of cholera in her county and she used raster data to describe the phenomena. Outline **three** advantages of using this type of data. (6 marks)

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4. (a) Outline **four** disadvantages of expert systems. (4 marks)

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- (b) Differentiate between *model space* and *paper space* as used in CAD applications. (4 marks)

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- (c) The following transactions were drawn from the books of accounts of Muse and Company. Post these transactions to the relevant ledger accounts and balance off the accounts:

2/5/2010	Owner started business with shs 60,000 cash;
3/5/2010	Received shs 40,000 cash as bank loan;
4/5/2010	Bought goods worth shs 10,000 and paid in cash;
7/5/2010	Deposited part of the cash in hand shs 12,000 to the business bank account;
8/5/2010	Withdrew shs 10,000 cash from the business for personal use;
10/5/2010	Bought furniture worth shs 5,000 and paid in cash;
11/5/2010	Bought stock worth shs 8,000 and paid by cash.

(7 marks)

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5. (a) State **two** types of *grip tools* used in CAD applications. (2 marks)

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(b) Alex was advised to use a trial balance in his business. Outline **three** functions of this statement to his business. (3 marks)

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(c) Differentiate between *inductive* and *deductive* reasoning as used in artificial intelligence. (4 marks)

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(d) Joyce an architect prefers using the *blocks* feature in CAD programs for her drawings. Outline **three** reasons for this preference. (6 marks)

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6. (a) Outline **three** applications of machine learning in the banking industry. (3 marks)

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(b) Define the term *fuzzy logic* as used in artificial intelligence. (2 marks)

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(c) Keith used the following accounts when preparing a company file in an accounting application. Describe the functions of each of these accounts as used in accounting applications.

(i) equity; (2 marks)

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(ii) accounts receivable; (2 marks)

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(iii) non-posting account. (2 marks)

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(d) Figure 1 shows a diagram that a teacher drew during a CAD lesson. He instructed the students to come up with a rectangular array with the following properties:

Rows: 3;

Columns: 4;

Angle of array: 90.



Figure 1

Draw a sketch to represent this array.

(4 marks)

