

Name: _____ Index No. _____ / _____

2920/202A

COMPUTER APPLICATIONS II (Theory)

Paper 1

November 2015

Time: 2 hours

Candidate's 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.**Answer any FOUR of the following SIX questions in the spaces provided in the question paper.**All questions carry equal marks.**Candidates should answer the questions in English.***For Examiner's Use Only**

Question No.	1	2	3	4	5	6	TOTAL SCORE
Candidate's score							

This paper consists of 8 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) Explain each of the following terms used in a CAD program:

(i) Ortho;

(2 marks)

(ii) Offset;

(2 marks)

(iii) Polygon.

(2 marks)

(b) Explain the term *layers* as used in Geographical Information System.

(2 marks)

(c) Categorise each of the following assets as *current assets* and *fixed assets* as used in accounting:

(4 marks)

Bank balance, buildings, Cash, furniture, land, Money owed by credit customers, Stock, Vehicles

- (d) Figure 1 shows first angle orthographic view of a 3-dimensional block. Use it to answer the question that follows.

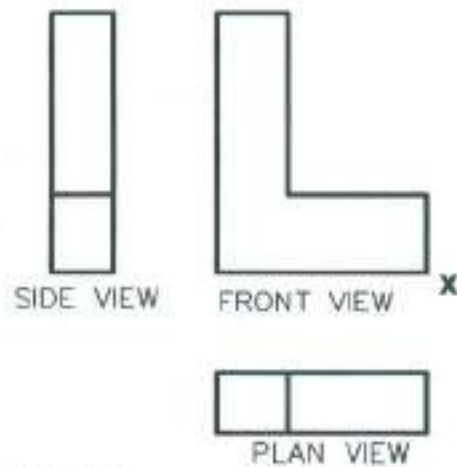
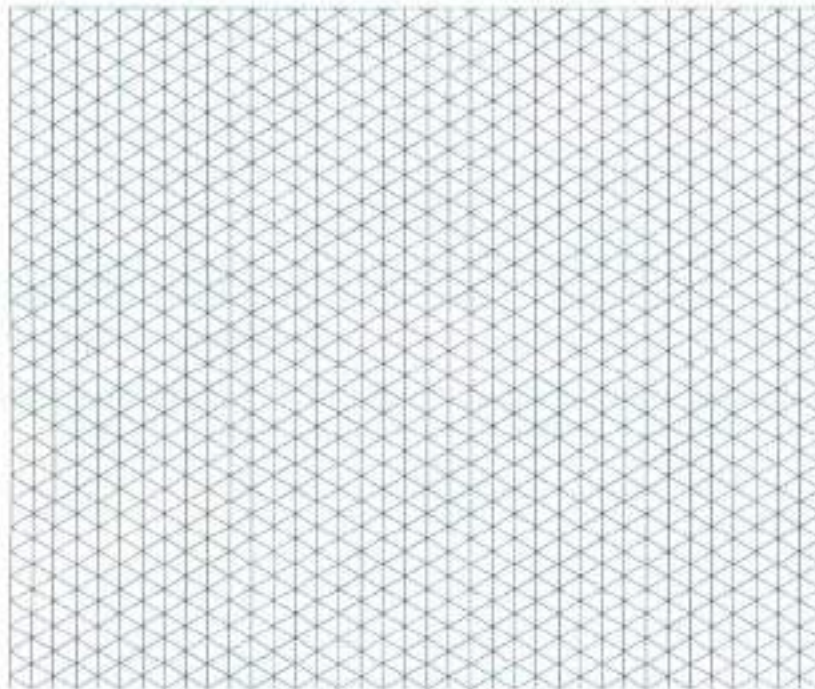


Figure 1

Sketch an isometric drawing of the object on the grid provided below taking the point X as the lowest point in the drawing. (3 marks)



- 2 (a) Company XYZ made the following transactions:
- Borrowed a loan of Ksh.500,000 to start a business
 - Obtained Ksh.150,000 in cash from proceeds of sales.
 - Paid out Ksh.240,000 in form of salaries.
 - purchased Ksh.660,000 worth of machinery in cash.
 - purchased a track valued at Ksh.1,500,000 by paying Ksh.300,000 in cash and getting a loan for the remainder
 - paid rent of Ksh.80,000 and advertising of Ksh.50,000 in cash

3. (a) Peter drew two square models of the same dimension in a CAD program. He used a *Line tool* in one and a *Polyline tool* in the other. State the difference between the two drawings. (2 marks)

- (b) (i) List **four** programming languages used to develop AI. (2 marks)

- (ii) A hospital intends to use AI applications in the treatment process of patients. Outline **three** ways in which the application could be used in the hospital. (3 marks)

- (c) A company has acquired accounting software and the finance officer in the company intends to setup a company profile in the software. Outline the steps that the finance officer would follow during the setup. (4 marks)

- (d) Derrick an engineering student designed a geometry using a CAD program. When he printed the work, the drawing could not fit on the paper. Explain **two** ways in which he could solve the problem. (4 marks)

4. (a) Outline **three** roles of a bookkeeper in a business organisation: (3 marks)

- (b) In the recent past, self-driving cars have made entry on public roads. Explain **two** challenges of implementing this technology. (4 marks)

- (c) Outline **four** advantages for using vector data model to store spatial data in a geographical system. (4 marks)

- (d) Samson intends to use speech recognition software to dictate his notes in his home desktop computer.

- (i) State **two** hardware and software requirements in the computer. (2 marks)

- (ii) Outline **two** challenges that he may face when using the system. (2 marks)

5. (a) Explain the meaning of the term *associative hatching* as used in a CAD program. (2 marks)
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- (b) With the aid of a diagram, describe the main parts of an expert system. (7 marks)
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- (c) Differentiate between a *GIS generated map* and a *hard-copy map*. (4 marks)
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- (d) Outline **two** benefits of using a computerised payroll system. (2 marks)
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6. (a) (i) The following is a list of commands used in computer software. Identify those that belong to accounting software. (1 mark)
- Architecture, Company, Debug, Employees, Encoding, Macro, Run, Team, Test*
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