

2920/202A  
COMPUTER APPLICATIONS II  
Theory  
July 2018  
Time: 2 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL  
DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY  
MODULE II

COMPUTER APPLICATIONS II

Theory

2 hours

**INSTRUCTIONS TO CANDIDATES**

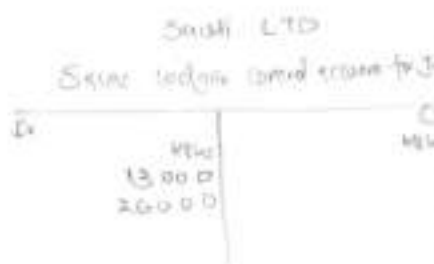
*This paper consists of SIX questions  
Answer **FOUR** of the following SIX questions in the answer booklet provided.  
All questions carry equal marks  
Candidates should answer the questions in English.*

**This paper consists of 4 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 the function of each of the following dimensioning sub-commands in a CAD program. (3 marks)
- (i) continue;
  - (ii) horizontal;
  - (iii) restore.
- (b) Koito, a robot waiter in a Japanese restaurant takes orders from customers and serves them. Explain **three** human characteristics that Koito should possess to be effective waiter. (6 marks)
- (c) The following information was extracted from the records of Sauti Ltd for the month of June 2017.

	Shs
June 1 <sup>st</sup> Sales ledger balance	13,000
Credit sales	26,000
Cash received from debtors	21,000
Discounts allowed	1,300
Returns inwards	2,600
Interest charged on overdue accounts	2,000
Inter ledger transfers	1,600
Dishonoured cheques	4,800
Bad debts written off	1,400
June 30 <sup>th</sup> Debit balance	400
Credit balance	400



Prepare a sales ledger control account for June 2012 (6 marks)

2. (a) Explain the function of each of the following commands as used in a CAD program: (2 marks)
- (i) Mirror;
  - (ii) Fillet.
- (b) Describe the most appropriate procedure to be followed in order to obtain figure 2 from figure 1 other than using copy command in a CAD program. (3 marks)

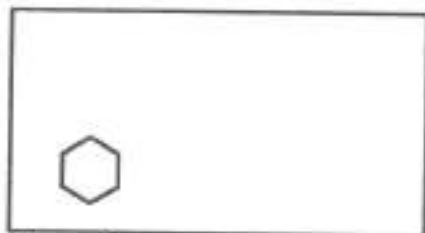


Figure 1

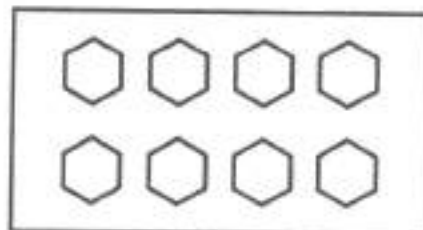


Figure 2

- (c) With the aid of example, distinguish between *Vector data* and *attribute data* as used in Geographical Information Systems. (5 marks)

- (d) The goal of artificial Intelligence is to make machines that have human capabilities by improving their computational abilities. State **three** challenges that face AI in this quest. (3 marks)
3. (a) Outline the function of each of the following personnel in Geographic Information Systems industry; (4 marks)
- (i) Cartographers;
  - (ii) Database managers;
  - (iii) Programmers;
  - (iv) Spatial analysts;
- (b) Figure 3 shows a drawing created using a CAD program. Indicate **three** types of dimensions and their respective sections where they can be used in the drawing. (3 marks)

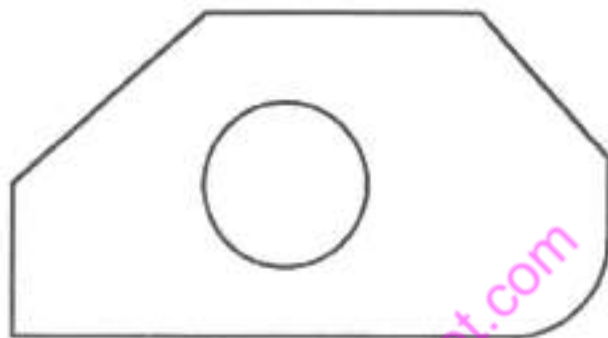


Figure 3

- (c) With the aid of an example, explain the function of each of the following features on a Geographic Information System map: (4 marks)
- (i) lines;
  - (ii) areas.
- (d) State two <sup>difference</sup> differentiate between a *trading account* and a *profit and loss account*. (4 marks)
4. (a) Outline the function of each of the following basic elements of Geographic Information Systems. (6 marks)
- (i) Software;
  - (ii) Hardware;
  - (iii) Procedures/Methods;
- (b) Explain the term *contra entry* as used in the cash book. (3 marks)

- (c) Explain **three** reasons that cause the difference between cash book and bank statement balances. (6 marks)
5. (a) Outline **five** areas where Artificial Intelligence has outperformed human beings. (5 marks)
- (b) Explain a circumstance for using each of the following commands as used in a CAD program. (4 marks)
- (i) Hatching;
  - (ii) Exploding.
- (c) Explain **three** ways of acquiring secondary data used in Geographic Information Systems. (6 marks)
6. (a) Explain the function of each of the following drawings spaces used in a CAD program: (4 marks)
- (i) model-space;
  - (ii) paper-space.
- (b) Outline **five** benefits of using paper-space feature when creating a drawing in a CAD program. (5 marks)
- (c) Explain **three** bookkeeping errors that are not revealed when of a trial balance balances. (6 marks)

Account

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