

2920/202A

COMPUTER APPLICATIONS II

July 2016

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 has SIX questions.

Answer any 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) A CAD student was advised to combine a collection of objects into a block of entity. Outline **four** benefits that the student would achieve from this advice. (4 marks)
- (b) JMZ is a garment shop dealing with T shirts. The shop made the following transactions:
 - 1/2/2014 purchased 200 units each at Ksh. 1000
 - 3/2/2014 purchased 150 units each at Ksh. 900
 - 5/2/2014 purchased 225 units each at Ksh. 1200
 - (i) Determine the average cost of inventory (3 marks)
 - (ii) If on 7/2/2014 the company sold 250 units using the FIFO strategy, determine:
 - I. the cost of goods that the company sold (2 marks)
 - II. the cost of ending inventory. (2 marks)
- (c) Below are commands and successive values entered in an AutoCAD program.

LINE

LINE Specify next point or [Undo]: 0,0
 LINE Specify next point or [Undo]: 6,0
 LINE Specify next point or [Undo]: 6,3
 LINE Specify next point or [Undo]: 10,-3
 LINE Specify next point or [Undo]: 10,2
 LINE Specify next point or [Undo]: 6,2
 LINE Specify next point or [Undo]: 6,6
 LINE Specify next point or [Undo]: 0,6
 LINE Specify next point or [Undo]: close

Sketch the resultant drawing. (4 marks)

2. (a) State **three** examples of each of the following balance sheet accounts:
 - (i) assets (1½ marks)
 - (ii) liabilities. (1½ marks)
- (b) (i) Explain the function of an *invoice* as used in business transactions. (2 marks)
- (ii) Outline **two** circumstances under which a credit note is issued in business. (2 marks)
- (c) Jane, a CAD student intends to draw a polygon. Explain **two** ways in which she could trigger a command so that the program prompts on the number of sides to enter. (4 marks)
- (d) A new architectural company has opted to use a CAD program the design buildings. State **four** benefits that the company will reap from this approach. (4 marks)

3. (a) (i) Define the term *artificial intelligence* as used in computers. (1 mark)
- (ii) Distinguish between *intelligent agent* and *physical agent* as used in artificial intelligence. (4 marks)
- (b) Management of Kitungu Company was reluctant in embracing computerised accounting system. Outline **four** reasons that may be informing their decision. (4 marks)
- (c) An Engineer intends to create geometric block in a CAD program. Outline **three** methods in which he can specify the locations of points in the program. (6 marks)
4. (a) Explain **two** challenges of using robotic machinery in the manufacturing industry. (4 marks)
- (b) Outline each of the following type of Geographical Information System (GIS):
- (i) Four-dimensional GIS (1 mark)
- (ii) Multimedia/Hypermedia GIS (1 mark)
- (iii) Virtual Reality GIS. (1 mark)
- (c) Distinguish between *knowledge base* and *inference engine* components of an expert system as used in artificial Intelligence. (4 marks)
- (d) Distinguish between *periodic inventory* and *physical inventory* as used in stock control. (4 marks)
5. (a) (i) List **four** examples of computerised accounting software. (2 marks)
- (ii) A new company intend to acquire computerised accounting software. State four factors that the Finance and ICT Departments will consider when selecting the software. (4 marks)
- (b) Describe **three** characteristics of an *intelligent agent* as used in artificial Intelligence. (6 marks)
- (c) A County Governor was advised to use of Geographical Information System. Outline **three** ways in which the County would use the system. (3 marks)
6. (a) The following is a list of computer software. Identify the software that belongs to the CAD category. (3 mark)
- Auto-CAD, Picasa, IDEAS, CATIA, GIMP Fluent, CorelDraw, Transys, Adobe Photoshop, Hyper mesh*
- (b) Define each of the following terms as used in accounting:
- (i) Carrying Value (1 mark)
- (ii) Revenue. (1 mark)

- (c) Distinguish between *financial accounting* and *management accounting*. (4 marks)
- (d) A GIS specialist intends to capture one aspect of geographical space in a GIS application. Explain **three** challenges that the specialist would experience by using *raster data* to model spatial data. (6 marks)

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