2920/202A

COMPUTER APPLICATIONS II (THEORY)

Paper 1 July 2013

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.

## For Examiner's Use Only

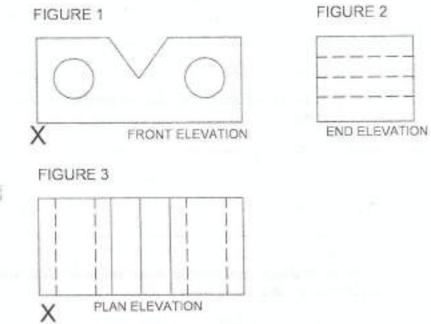
Question	1	2	3	4	5	6	Total Marks
Marks			L.				

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.

		in each the following intelligence agent sys	tem qualities.
	(i)	autonomies;	- (2 mark
	-		
			A
	(ii)	adaptivity;	(2 mark
	- 1		
-	- 17		
	(iii)	sociability.	(2 mark
_		n dining de	
(b)	Defin	e each of the following terms as used in fina	ancial accounting:
(b)	Defin	e each of the following terms as used in fin- capital;	
(b)			
(b)	- (i)	capital;	(1 mar
(b)			(1 mar
(b)	- (i)	capital;	(1 mar
(b)	- (i)	capital;	(1 mar
(b)	(ii)	capital;	(1 mar
(b)	(ii)	capital;	(1 mar
(b)	(ii)	capital;	(1 mar

(c) Figure 1, Figure 2 and Figure 3 show the front, end and plan elevations in third angle projection of a solid block respectively. Sketch the isometric view of the solid taking X as the lowest point in the drawing. (5 marks)



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			(1)
	(ii)	Explain one advantage of using accounting software keeping.	programs in (2 m
_	į		
(b)	Outlin Geog	ne three differences between vector and raster data typraphic Information Systems (GIS).	oes as used in (6 m
_			
		x .0	

(c) (i) Table 1 shows the financial status of three business ventures owned by John as at 31<sup>st</sup> July 2011. Use it to answer the questions that follow.

	Assets	Liabilities	Capital
1	25,000	14,000	A
2	35,000	В	12,000
3	C	300,000	350,000
TOTAL			

Table 1

1.	Using the accounting equation, determine the values of A, B and C. (1 ½ marks)
П.	Calculate the total values for each of the following: Assets, liabilities and capital. (1 ½ marks)
Cor	following are transactions carried out by Bissan Investment inpany during the month of July 2011 On 1 July he paid Ksh30,000 as rent in advance for the office room; On 2 July he paid Ksh 20,000 renovation of the stall; and on 3 July he bought two computers at Ksh. 50,000 each. On 7 July, received Ksh 75,000 for services he offered, with which he opened a business bank account on the same day. He incurred Ksh 2,000 travel expenses, which he paid from his own savings.  pare a summary of Bissan's income and expenses for the week led on 7th July.  (3 marks)
	II.

(a)	Descr	ibe two types of intelligent agents as used in computers.	(4 marks
		1	
(b)	Outli	ne the function of each of the following Computer Aided Donands:	esign
	(i)	OFFSET;	(1 mark
	(ii)	MULTILINE;	(1 mark
		, et con	
	(iii)	PAN;	(1 mark
			7.0
	(iv)	RECTANGULAR ARRAY,	(1 mark
-			

(c) The following shows the ledger accounts and entries needed to record all transactions for specified dates for Yamis Bakery Company.

CASH BOO	K				
arrestration of		Ban	k		
01-Oct	Yamis Capital	40,000	02-Oct	Purchases	20,000
08-Oct	Yamis capital	10,000	06-Oct	computer	17,000
09-Oct	Sales	8,2000	09-Oct	Drawings	1,000
	2011/2015	Cas	h	N - 50 - 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Tates to the same of the same
03-Oct	Sales	7,000	04-Oct	wages	3,000
				50144 <del>5</del> 004	196
GENERAL	LEGER				
Charles and control	1650000000	Yamis C	apital		
			01-Oct	Bank	40,000
4			08-Oct	Bank	10,000
		Comp	uter		
06-Oct	Bank	17,000			
		Sale	S		
			03-Oct	Cash	7,000
			07-Oct	Bank	8,200
		Purch	ases		
02-Oct	Bank	20,000			
03-Oct	Unga Limited	15,000			
		Wag	es		
04-Oct	Cash	3,000			
04-Oct	Cash	1,000			
		Drawi	ngs		
05-Jan	Bank	1,000	-176		
		Unga	Ltd		
			03-Oct	Purchases	15,000
			23500000000		0.0000000000000000000000000000000000000

Balance all the accounts and extract a trial balance as at 31st October 2004 (7 marks)

(a)	Outline two benefits and two challenges that an investor would realise from the use of Knowledge Management Systems. (4 marks)
_	
(b)	Differentiate between balance carried forward and balance brought forward as used in financial accounting. (4 marks)
_	
	The state of the s
(c)	The following are transactions for Ramio Business Enterprise for the month of April 2007.
	<ul> <li>Owner starts business with Ksh 30,000 paid into a business bank account on 1 April.</li> </ul>
	<ul> <li>Business buys machinery with a cheque for Ksh 80,000 on 2 April.</li> <li>Business buys computers for Ksh 200,000 on credit from Officement Company on 4 April.</li> </ul>
	On 5 April, business borrows Ksh 300,000 on loan from Wakulima

 On 5 April, business borrows Ksh 300,000 on loan from Wakulim Bank. Money is paid into business's bank account.

- Business pays Officemart Company Ksh 80,000 by cheque on 6 April.
- Company Director takes Ksh 150,000 from bank for personal spending.

Show the effect of these transactions on the assets, capital and liabilities using the format indicated below. (7 marks)

1	Transactions	Assets Ksh	liabilities	Capital
I,	Transaction Description	+30,000 (Bank)		+30,000 (Capital)

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5. (a) A student added the following datasets into a country map document in a Geographic Information Systems (GIS) application: basemap: To hold the map of the country; towns: To hold the county headquarters of every county in the country; counties. To hold the county boundaries; roads: To hold the distance between towns.

	conte	ne the order in which these datasets should be a nt such that each dataset is visible on the map	arranged in the table of (3 marks)
(b)	With	the aid of a diagram, explain the circumstances ving commands are used in Computer Aided D	s under which each of the besign.
	(i) <sup>j</sup>	TRIM;	(3 marks)
	(ii)	EXPLODE.	(3 marks
Tax	Davas	dha aach af tha fall	400 C 1 S - 107
(c)	(i)	Neural networks:	dificial intelligence: (2 marks)
	(ii)	Generic algorithm;	(2 marks)
	(iii)	Expert system.	(2 marks
57.			

With the aid of a diagram in each case, explain dimensioning commands as used in Computer	each of the following type Aided Design (CAD) prog
(i) CONTINUE	(3 m
(ii) BASELINE.	(3 m
asythet.com	

Figure 4 and Figure 5 shows an object before and after modification (c) respectively, drawn using a Computer Aided Design program. Outline the appropriate steps that one would follow to create the section labelled (i) and (ii) from Figure 4. (5 marks) AFTER. (i) (ii) Figure 5 Figure 4