1507/113 1901/101 1801/101 1802/101 1819/101 1907/101 ICT, MATHEMATICS AND ENTREPRENEURSHIP June/July 2016 Time: 3 hours



### THE KENYA NATIONAL EXAMINATIONS COUNCIL

### CRAFT CERTIFICATE IN BAKING TECHNOLOGY CRAFT CERTIFICATE IN PETROLEUM GEOSCIENCE CRAFT CERTIFICATE IN FASHION DESIGN AND GARMENT MAKING TECHNOLOGY CRAFT CERTIFICATE IN FOOD AND BEVERAGE PRODUCTION SALES AND SERVICE

CRAFT CERTIFICATE IN CATERING AND ACCOMMODATION OPERATIONS

### MODULE I

#### ICT, MATHEMATICS AND ENTREPRENEURSHIP

### 3 hours

### INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet; Scientific calculator fx-82 (non Programmable)/ Mathematical table.

This paper consists of TWO sections A and B. Section A and B have 10 and 6 questions respectively. Answer ALL questions in Section A as well as questions 11, 12, and 13 and any ONE question from section B in the answer booklet provided. Maximum marks for each part of a question are indicated. Candidates should answer the questions in English.

This paper consists of 5 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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### SECTION A (40 marks)

Answer ALL the questions in this section.

1,	State t	he four basic components of a computer system.	(4 marks)		
2.	State f	four reasons that may account for the popularity of a flash memory as a seconda e.	ry (4 marks)		
3.	Outlin	e two functions of each of the following keys on the keyboard:			
	(a)	enter key;	(2 marks)		
¥	(b)	tabulation key.	(2 marks)		
4.	State th	he units for measuring each of the following in a computer system:			
	(a)	processor speed;	(1 mark)		
	(b)	RAM capacity;	(1 mark)		
	(c)	hard disk capacity;	(1 mark)		
	(d)	monitor size.	(1 mark)		
5.	Determine the maximum capacity in litres of a fish tank measuring 60 cm by 50 cm by 2.2 m.				
6.	Solve:		(4 marks)		
	(a)	$\frac{6(-4) - (-8)(-5)}{-16}$	(2 marks)		
	(b)	37.85 - 40.62 + 31.85 - 9.6	(2 marks)		
7.	A salt s	solution is made by dissolving 1200 grams of salt in 45 litres of water. At this rate the amount of salt in grams needed for 20,000 cm <sup>3</sup> of water.	ate, (4 marks)		
8.	Organi may ac	sations are increasingly making use of consultancy services. State four reasons count for this practice.	that (4 marks)		
9.	Explain	n the meaning of each of the following terms as used in entrepreneurship:			
	创	entrepreneurial culture;	(2 marks)		
	(b)	business plan.	(2 marks)		
10.	Outline	e four activities that an entrepreneur may carry out before starting an enterprise	(d. annaliza)		
15070	1.7	1001/101	(4 marks)		
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#### SECTION B (60 marks)

Answer questions II, 12, and 13 and any other ONE question from this section.

11. Draw a directory structure for a computer file system with the following files: (a)

> D:\DIPLOMA\Term1\Exam1.doc D:\CRAFT\Term1\Exam1.doc D:\DIPLOMA\Term1\Exam2.doc

(5 marks)

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(b) Figure 1 shows an extract of a document created using a word processor. Use it to answer the question that follow

# Letter Character Spacing

this is the distance between letters and includes any kneming or tracking values that may type. A character's width is determined not just by the character itself, but also by the spit designer adds around the character known as the nile leaving

line, changing the spacing between can detenationally improve the

Because these are more letter the letters by an imperceptible spaces than wood spaces on every amount - plus or minus 2 parcentovenness of just

### Glyph Scaling

· Glyph scaling is the process of adjusting the width of characters in order to achiev and a little glyph scaling goes a long way.

#### Figure 1

Table 1

(3 marks) Identify six formats that have been applied the document section.

- (c) State four features in a word processor that may be used to make corrections on a created document (4 marks)
- (d) State three equipment that may be required when setting up a LAN (3 marks)
- 12. (a) A sample of plastic pipe is expanded as shown in table 1:

adapth your other just

							and the second se	
	Leng	gth (L) mm	1000	, 1001.1	1002.3	1003.1		
N.	Temperature (T) °C			20	32	54		
	(i)	plot a graph o	of length (L) a	ngainst temp	erature (T);		(3 marks)	
	(ii)	Determine th	e equation of	the line dray	vn in (i).		(3 marks)	
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(iii) Find the length of the pipe at 10° C.

(2 marks)

(1 mark)

(b) On a particular day, XYZ bank bought and sold foreign currency at the rate shown in table 2.

	Buy	Sell	
Dollar (\$)	80	82	
Euro (∈)	120	127	
Pound (£)	10	150	
Korean Won (W)	4	45	

Table 2

A visiting tourist converted 100,000 Korean Won to Kenya Shillings at the bank, spends Ksh 100,000 in the country and converted 2/3 of what was left to Dollars and the remaining to Euros.

Determine the amount of each of he following currencies that he was left with in :

	(i) Dollars; (ii) Euros		(5 marks) (2 marks)
	(iii)		(
(a)	State four contributions of er	trepreneurship towards nation	ial development.
			(4 marks)
(b)	Outline four circumstances un	nder which the management o	f an enterprise may
	conduct market research.		(4 marks)
(c)	Outline seven factors that an o	entrepreneur may consider wh	en determining the
	suitability of a business locati	on.	(7 marks)
(a)	In a spread sheet program, sta	te the formula that would be d	isplayed when each
	of the following formulae typ	ed in cell A1 is copied to cell 1	D4:
	(i) = \$A3	the state of the s	(1 mark)
	(ii) = BS1		(1 mark)

- (iii) = SAS1
- (b) Table 3 shows details about books entered in a database by a bookshop. Use it to answer the questions that follow.

### Table 3

ISBN	Title	Paperback or Hardback	Price
0718102096	Mawingu nene	Н	300
0709165595	Masomo Kislwani	Н	250
0006163831	Light the tree	Р	300
0590554662	The hot persuit	Р	500
1852251980	Stacey's Autobiography	Н	310

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13.

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4

State one field where the :

- (i) currency data type would be appropriate;
   (1 mark)
- (ii) boolean /logical data type would be appropriate. (1 mark)
- (c) Ann intends to install several categories of packages in a new laptop. Explain three factors other than cost, that she may consider when selecting the software.

(6 marks)

- (d) State four benefits that an organisation may derive from using email technology for communication. (4 marks)
- (a) From a group of six men and women, five people are to be chosen at random. Determine the number of ways of selecting more men than women.

(6 marks)

(b) A study conducted on 20 families to ascertain the number of children per family is as shown in table 4.

Table 4.					
No of children per family	1	2	3	4	5
No of families	3	4	8	2	3

Determine the:

	(i)	mean number of children per family;	(4 marks)
	(ii)	standard deviation.	(5 marks)
a)	State	three ways that an entrepreneur may use to generate a business idea.	(3 marks)
b)	Expla	in three factors that may facilitate the spread of HIV/AIDS in the societ	ty. (6 marks)
c)	Expla	in three guidelines that an organisation may follow in order to enforce ive social responsibility.	(6 marks)

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