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ICT, MATHEMATICS AND
ENTREPRENEURSHIP

June/July 2013

Time: 3 hours

Candidate's Signature: _____

Date: _____



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN BAKING TECHNOLOGY
CRAFT CERTIFICATE IN FOOD AND BEVERAGE PRODUCTION AND SERVICE

CRAFT CERTIFICATE IN PETROLEUM GEOSCIENCE
CRAFT CERTIFICATE IN CATERING AND ACCOMMODATION
MODULE I

ICT, MATHEMATICS AND ENTREPRENEURSHIP

3 hours

INSTRUCTIONS TO CANDIDATES*Write your name and index number in the spaces provided at the top of this page.**Write the date of the examination and sign in the spaces provided above.**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 and questions 11, 12, 13 and any other ONE question from section B in the spaces provided in this question paper.**You should have the following for this examination:**A Scientific calculator/ Mathematical table.**Marks for each part and section of a question are as indicated.**Candidates should answer the questions in English.***For Examiner's Use Only****Section A**

Question	1	2	3	4	5	6	7	8	9	10	TOTAL
Marks											

Section B

Question	11	12	13	14	15	16	TOTAL	GRAND TOTAL
Marks								

This paper consists of 16 printed pages.

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

SECTION A (40 marks)

Answer **ALL** the questions in this section in the spaces provided after each question.

1. Define the following terms as used in computers:

(a) data;

(2 marks)

(b) information.

(2 marks)

2. State **two** advantages of using a keyboard over a mouse to input data.

(4 marks)

3. Write **each** of the following acronyms in full:

(a) RAM;

(1 mark)

(b) ROM;

(1 mark)

(c) DVD;

(1 mark)

(d) OCR.

(1 mark)

4. Distinguish between **booting** and **shutting down** as used in computers.

(4 marks)

5. A sum of money is to be shared between three people in the ratio 4:5:1. If the smallest share was Ksh 4500, determine the difference between the highest and the smallest share. (4 marks)

6. Given that the length of a rectangle is $2\frac{1}{2}$ times its width and its area is 160 cm^2 . Find the length and the width of the rectangle. (4 marks)

7. On one trading day, banks bought and sold foreign currencies at the rates shown below:

\$1 = Ksh 85.5

1 Euro = Ksh 105.7

£ 1 = Ksh 123.4

1 Euro = \$ 1.6

Susan exchanged Ksh 500,000 to dollars then to Euros and back to shillings. Calculate the amount in shillings that she received. (4 marks)

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Turn over

8. State **four** reasons that may make small enterprises fail. (4 marks)

9. Highlight **four** benefits that organisations may derive from trade shows and exhibitions. (4 marks)

10. Distinguish between creativity and innovation as used in entrepreneurship. (4 marks)

SECTION B (60 marks)

Answer questions 11, 12, 13 and any other ONE question from this section in the spaces provided after question 16.

11. (a) Outline **three** reasons for increased preference of flash memories to floppy disks. (6 marks)

(b) Distinguish between a general purpose computer and special purpose computer. (4 marks)

(c) Explain **two** functions of an operating system in a computer giving an example in each case. (5 marks)

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12. The variation of pressure P in a vessel with respect to temperature T is as shown in table 1.

Pressure P	245	248	252	258	262	267
Temperature T	273	277	282	289	294	300

Table 1

- (a) Plot the graph of P (vertical axis) versus T (horizontal axis) on the graph paper on page 16. (5 marks)
- (b) It is known that P and T is related by the equation $P = aT + b$ where a and b are constant. Determine the:
- (i) value of a ; (3 marks)
 - (ii) value axis intercept; (2 marks)
 - (iii) pressure when T is 340; (2 marks)
 - (iv) temperature that causes a pressure of 300. (3 marks)
13. (a) Outline **five** reasons that make it necessary for an entrepreneur to write a business plan. (5 marks)
- (b) Staff appraisal is an important aspect of human resource management in an organisation. State **five** benefits that an organisation may derive from this practice. (5 marks)
- (c) Describe the procedure of starting a small enterprise. (5 marks)
14. (a) Explain the function of each of the following in an e-mail:
- (i) cc; (2 marks)
 - (ii) Bcc; (2 marks)
 - (iii) attachment. (2 marks)
- (b) Outline **four** advantages of e-mail over short message services (sms). (4 marks)
- (c) Describe **two** ways of hitting the target faster when using a search engine to search for information on the web. (4 marks)

(d) Figure 1 shows a network design.

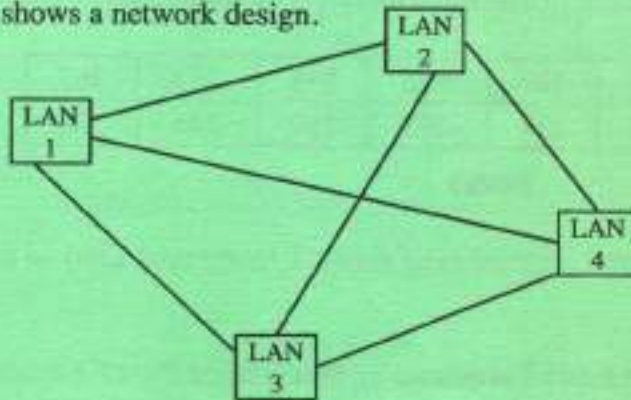


Figure 1

Identify the type of network.

(1 mark)

15. (a) Explain **three** methods used to collect data in statistics.

(6 marks)

(b) Distinguish between primary and secondary data.

(4 marks)

(c) Table 2 shows the number of students who attended a school in a week.

MON	TUE	WED	THUR	FRI
334	329	348	340	300

Table 2

Determine the:

(i) mean;

(3 marks)

(ii) median.

(2 marks)

16. (a) (i) Identify **six** characteristics of an effective entrepreneur.

(3 marks)

(ii) List **four** challenges faced by owners of small enterprises.

(2 marks)

(b) State **five** benefits of e-commerce to an entrepreneur.

(5 marks)

(c) Outline **five** uses of information communication Technology (ICT) in an enterprise.

(5 marks)

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