1507/113 1901/101 1801/101 1903/101 1802/101 1904/101 1819/101 1907/101 ICT, MATHEMATICS AND ENTREPRENEURSHIP June/July 2017 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 SALE AND SERVICE
CRAFT CERTIFICATE IN CATERING AND ACCOMMODATION OPERATIONS
CRAFT CERTIFICATE IN FOOD PROCESSING AND PRESERVATION TECHNOLOGY
CRAFT CERTIFICATE IN SCIENCE LABORATORY TECHNOLOGY

MODULE

ICT, MATHEMATICS AND ENTREPRENEURSHIP

3 hours

#### INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Mathematical tables/a non programmable scientific calculator;

Answer booklet.

This paper consists of TWO sections; A and B.

Answer ALL questions in Section A and the specified FOUR questions from section B.

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. Outline four functions of the control unit in the computer system. (4 marks)

(a) State four elements that may be required when creating a computer network.

(2 marks)

(b) State two types of relationships used in databases.

(2 marks)

Describe the procedure used to rotate a text box in a word processing program.

(4 marks)

(a) List four mathematical operators used in spreadsheet formulas.

(2 marks)

(b) Write the spreadsheet formula that would be used to total all the values in cells A<sub>1</sub>, A<sub>2</sub>, A<sub>3</sub> ... A<sub>10</sub>. (2 marks)

 A line which joins the point A (4, K) and B (-2, 5) is parallel to a line whose equation is 5y + 2x - 7 = 0. Determine the value of k.

- Three entrepreneurs Ann, Bela and Dolly contributed a total of Ksh 1,302,000 to start a
  business. The ratio of the contribution of Ann to Bela was 2:3 and that of Bela to Dolly was
  4:5. Determine the contribution made by Dolly.
- 7. A bank buys and sells foreign currencies at the exchange rates shown in Table I

Table I

Currency	Buying (Ksh)	Selling (Ksh)	
1 Euro	150.86	152.20	
1 US Dollar	110.22	114.50	

A tourist arrived with 21200 Euros. He converted all the Euros to Kenya shillings at the bank. Then spent Ksh 2,512,000 while in the country and converted the remaining Kenya shillings to US Dollars at the bank. Determine the amount, in Dollars, that the tourist received.

(4 marks)

- The proprietor of SK Packers Ltd intends to upgrade their packaging materials. State four
  qualities of such packaging materials. (4 marks)
- 9. Outline four benefits of innovation to a business enterprise.

(4 marks)

10. Explain two characteristics of a visionary entrepreneur.

(4 marks)

1507/113 1819/101 1904/101 1801/101 1901/101 1907/101 1802/101 1903/101

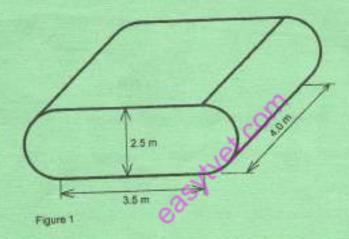
June/July 2017

## SECTION B (60 marks)

### Answer Question 11, 12, 13 and ONE other question from this section.

- (a) Differentiate between 'save' and 'save as' commands when using a spreadsheet program. (4 marks)
  - (b) Outline four advantages of using the hard disk as a storage device. (4 marks)
  - (c) State three control measures that may be taken against unauthorised access to data in a computer. (3 marks)
  - (d) Highlight three benefits that may be obtained from using the mail merge feature.

    (4 marks)
- (a) Figure 1 shows an underground water tank with dimensions in metres.



Calculate the volume of water in litres that the tank holds when full.

(6 marks)



1507/113 1801/101 1802/101 June/July 2017 1819/101 1901/101

1903/101

1904/101 1907/101 3

Turn over

(b) Figure 2 shows a square, ABCD, circumscribed by a circle of radius 120 m.

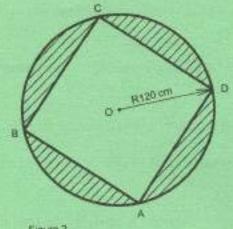


Figure 2



Find the area of the:

(i) circle;

(2 marks)

(ii) square;

(5 marks)

(iii) shaded part.

(2 marks)

- 13. (a) (i) Explain the meaning of the term 'stakeholder' as used in a business enterprise.
  - (ii) Identify two categories of stakeholders of a business enterprise.

(3 marks)

- (b) Explain the meaning of each of the following terms as used in entrepreneurship;
  - (i) creativity;

14.

(ii) business plan.

(4 marks)

(c) Explain four reasons that may lead to failure of an enterprise.

(8 marks)

(a) Explain two functions of a computer network.

(4 marks)

(b) Outline the procedure that should be followed when creating footnotes.

(4 marks)

(c) State four characteristics of first generation computers.

(4 marks)

(d) Outline three advantages of using speech recognition systems as input devices.

(3 marks)

1507/113 1819/101 1904/101 1801/101 1901/101 1907/101 1802/101 1903/101 June/July 2017 15. (a) (i) Find the value of:

4P2

(3 marks)

(ii) Calculate the number of ways of selecting three people from a group of twelve people:

(3 marks)

(b) Table II shows the frequency distribution of the length (in cm) of 30 plants.

Table II

Length (cm)	4 - 8	9 - 13	14 - 18	19 - 23	24 - 28
Frequency	2	7	12	6	3

(i) Determine the modal class.

(4 marks)

- (ii) Calculate the:
  - (I) mean;
  - (II) standard deviation.

(5 marks)

- 16. (a) State four challenges that may be faced by female entrepreneurs. (4 marks)
  - (b) Outline three consequences of poor communication in an enterprise. (3 marks)

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(c) Explain four measures that the management of an enterprise may take to encourage creativity among employees. (8 marks)

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