1507/113	1819/101	1906/101
1801/101	1901/101	1907/101
1802/101	1903/101	1908/101
1804/101	1904/101	
1805/101	1905/101	
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THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN BAKING TECHNOLOGY
CRAFT CERTIFICATE IN CHILDCARE AND PROTECTION
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 SOACIAL WORK AND COMMUNITY DEVELOPMENT
CRAFT CERTIFICATE IN FOOD PROCESSING AND PRESERVATION TECHNOLOGY
CRAFT CERTIFICATE IN SCIENCE LABORATORY TECHNOLOGY
CRAFT CERTIFICATE IN FISHERIES SCIENCE AND TECHNOLOGY
CRAFT CERTIFICATE IN SUSTAINABLE AND ECOLOGICAL AGRICULTURE
CRAFT CERTIFICATE IN BAKING TECHNOLOGY
CRAFT CERTIFICATE IN NUTRITION AND DIETETICS

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.

Answer ALL the questions in Section A as well as questions 11, 12, and 13 and any other 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.

SECTION A (40 marks)

Answer ALL the questions in this section.

- 1. Explain each of the following terms as used in computing:
 - (a) program;

(2 marks)

(b) data.

(2 marks)

- 2. Outline four features of second generation computers that distinguish them from third generation computers. (4 marks)
- 3. Table I is an extract of a worksheet.

Table I

Cell	В9	B10	B11	B12	B13	B14
Data	420	Temperature	=D1 + D2	380	=C14	=sum(A4 : A5)

State the data type in each of the following cells:

- (a) B10 (1 mark)
- (b) B11 (1 mark)
- (c) B12 (1 mark)
- (d) B14 (1 mark)
- 4. List four magnetic computer storage devices.

(4 marks)

- 5. Convert the following measurements:
 - (a) $16\frac{1}{5}$ hours to minutes.
 - (b) 2.15 kilometres to metres.

(4 marks)

- 6. A sewing machine is stocked by a retail outlet at Ksh 30,000. If the retail outlet sells it to a tailor at Ksh 34,500, determine the percentage profit. (4 marks)
- 7. A quantity y varies inversely as x. When x = 12, y = 36. Determine the:
 - (a) expression relating x and y.
 - (b) value of x when y = 48

(4 marks)

8. State four reasons that make effective external communication necessary in a business enterprise. (4 marks)

 1507/113
 1804/101
 1901/101
 1905/101
 1908/101

 1801/101
 1805/101
 1903/101
 1906/101

 1802/101
 1819/101
 1904/101
 1907/101

- 9. Distinguish between an opportunistic entrepreneur and a promoter entrepreneur. (4 marks)
- 10. Bony is in the process of writing the management plan section of a business plan. Outline four types of information that he should include in this section. (4 marks)

SECTION B (60 marks)

Answer questions 11, 12, and 13 and any other ONE question from this section.

- 11. (a) Distinguish between sign in and sign up as used in electronic mail. (4 marks)
 - (b) (i) State three types of proofreading tools available in a word processor.
 (ii) Outline two ways of creating a table in a word processor.
 (5 marks)
 - (c) Outline three differences between a local area network (LAN) and a metropolitan area network (MAN). (6 marks)
- 12. (a) Given the currency exchange rates:

1 STG £ = Ksh 133 1 US \$ = Ksh 102

Convert:

- (i) 510 STG £ to Ksh.
- (ii) Ksh 86,700 to US \$.

(4 marks)

- (b) A straight line is given by the equation 3y = 2x + c. Given that the y-intercept is 2, determine the:
 - (i) value of c
 - (ii) gradient.

(4 marks)

(c) The daily wages in Ksh of 10 casual workers are as follows:

700, 550, 600, 750, 450, 500, 600, 800, 650, 900

Determine the:

- (i) mean wage;
- (ii) standard deviation;
- (iii) mode.

(7 marks)

1507/113 1804/101 1901/101 1905/101 1908/101 1801/101 1805/101 1903/101 1906/101 1802/101 1819/101 1904/101 1907/101 1907/101 3

Turn over

- 13. (a) Zuri Company intends to venture into a new market. State **four** ways in which the company may promote its products in this market. (4 marks)
 - (b) Explain **three** reasons that make an entrepreneurial culture important in a country. (6 marks)
 - (c) Highlight **five** challenges that may be faced by a sole proprietor in the course of doing business. (5 marks)
- 14. (a) State **four** advantages of general purpose software. (4 marks)
 - (b) Explain each of the following terms as used in operating systems:
 - (i) disk partitioning;
 - (ii) disk defragmentation.

(4 marks)

(c) Table II shows an extract of house details from the database of a real estate agent.

Table I

House No.	House Type	Feature	Rent (Ksh)
AE001	Bungalow	Pond	45,000.00
AE008	Bungalow	Pool view	15,000.00
AE110	Detached	Waterfall	38,000.00
AE040	Terraced	Pool	42,000.00
AE007	Detached	Pool	32,000.00
AE004	Detached	Pond	18,000.00
AE118	Bungalow	Waterfall	33,000.000
AE089	Terraced	Courtyard	25,000.00
AE047	Bungalow	Pool	28,000.00
AE018	Bungalow	Courtyard	32,000.00

- (i) State the number of records contained in the table.
- (ii) State the most appropriate data type for each of the following fields citing a reason for the choice:
 - I. House No.
 - II. Rent
- (iii) Outline two benefits that the agent may derive from using a database management system. (7 marks)

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1507/113	1804/101	1901/101	1905/101	1908/1
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1802/101	1819/101	1904/101	1907/101	
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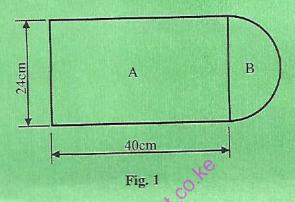
15. (a) Evaluate:

$$\left(\frac{3}{5} \div \frac{1}{2}\right) - \left(\frac{8}{9} \times \frac{3}{4}\right) + 2 \tag{4 marks}$$

- (b) Two loaves of bread are picked at random from a large sample. If the probability that a loaf is underweight is $\frac{3}{20}$, determine the probability that:
 - (i) both are underweight;
 - (ii) only one is underweight.

(5 marks)

(c) Figure 1 shows a cross-section of a block where part A is a cylinder and part B is a hemisphere.



Determine the volume of the block.

(6 marks)

16. (a) State five characteristics of a good business idea.

(5 marks)

- (b) Explain **three** benefits that an enterprise may derive from engaging in corporate social responsibility activities. (6 marks)
- (c) State five benefits of electronic commerce (e-commerce) to an enterprise. (4 marks)

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1507/113 1804/101 1901/101 1905/101 1801/101 1805/101 1903/101 1906/101 1802/101 1819/101 1904/101 1907/101

1908/101