1501/101 1503/101 1508/101 1509/101
1601/101 1602/101 1704/101
INFORMATION COMMUNICATION
TECHNOLOGY AND
ENTREPRENEURSHIP EDUCATION
June/July 2019
Time: 3 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN MECHANICAL ENGINEERING
(PRODUCTION OPTION)
CRAFT CERTIFICATE IN AUTOMOTIVE ENGINEERING
CRAFT CERTIFICATE IN WELDING AND FABRICATION
CRAFT CERTIFICATE IN CONSTRUCTION PLANT ENGINEERING
CRAFT CERTIFICATE IN ELECTRICAL AND ELECTRONIC ENGINEERING
(POWER OPTION, TELECOMMUNICATION OPTION)
CRAFT CERTIFICATE IN BUILDING TECHNOLOGY

MODULE I

INFORMATION COMMUNICATION TECHNOLOGY AND
ENTREPRENEURSHIP EDUCATION

3 hours

INSTRUCTIONS TO CANDIDATES

You should have Drawing Instruments for this examination.
This paper consists of TWO sections; A and B.
Answer any SIX questions from section A and any FOUR questions from section B in the answer booklet provided.
All questions carry equal marks.
Maximum marks to each part of a question are as indicated.
Candidates should answer the questions in English.

This paper consists of 4 printed pages.

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

Turn over

SECTION A: INFORMATION COMMUNICATION TECHNOLOGY (60 marks)

Answer any SIX the questions from this section.

1. (a) i) State **five** characteristics of computer viruses.

    (ii) List **two** types of computer viruses.

    (7 marks)

    (b) State **three** forms in which multi-media storage devices may hold stored material.

    (3 marks)

2. (a) (i) State **three** characteristics of the fourth generation computers.

    (ii) State the path that should be used when accessing a subfolder named 'inventory' in a folder named 'production' stored in 'my documents' on a computer's hard disc.

    (5 marks)

    (b) Enterprises are increasingly using the internet to transact business. State **five** benefits of this trend.

    (5 marks)

3. (a) (i) Explain the term word processing as used in information communication technology (ICT).

    (ii) The management of an organization intends to acquire a computerized word processor to replace its typewriters. Outline four benefits that the organization may derive from this replacement.

    (6 marks)

    (b) (i) Explain the term computer network configuration.

    (ii) Outline **two** roles of a switch in a computer network.

    (4 marks)

4. (a) Table 1 shows information on payments for goods delivered by different suppliers which was prepared using a spread sheet program.

Table 1

A	B	C	D	E
Serial number	Name of supplier	Year 2008 (Kshs)	Year 2009 (Kshs)	TOTAL
1	Bona	43,000	23,400	
2	Rhida	4,200	53,000	
3	Vane	20,000	40,000	
4	Thomas	25,000	50,000	
TOTAL				

(i) Write a formula to calculate the amount paid to:

    (I)   the supplier number (1);

    (II)   all suppliers in the year 2008;

    (III)   all suppliers over the period 2008-2009.

(ii) Outline the steps that should be followed when representing the information in table 1 on a pie chart.

                      (8 marks)

(b) Explain the term hyperlink as used in a word processing application.   (2 marks)

5. (a) Explain each of the following terms as used in databases:

    (i)   Record;

    (ii)   Field;

    (iii)   File.   (6 marks)

(b) Distinguish between an application package and a utility program.   (4 marks)

6. (a) Describe each of the following types of computer operating systems:

    (i)   Time sharing operating system;

    (ii)   Distributed operating system.   (4 marks)

(b) Write the operating system command that should be used to perform each of the following tasks:

    (i)   To check disk;

    (ii)   To delete a folder named "John".   (2 marks)

(c) Distinguish between a window and an orphan as used in desktop publishing.

                      (4 marks)

7. (a) Outline **four** factors that should be considered when choosing a presentation package for an organization.   (4 marks)

(b) State **two** characteristics of the Random Access Memory of a computer.   (2 marks)

(c) An ICT college has made its brochure for the following application packages:

    Corel draw, MS Access, Lotus 123, Prezi, Wink, Page maker, DBase (IV), Me-Excel.

Group the packages into their respective categories.   (4 marks)

SECTION B: ENTREPRENEURSHIP EDUCATION (40 marks)

Answer any FOUR the questions from this section.

8. (a) Some young graduates prefer to engage in self employment upon completion of their training. State **four** reasons that may account for this preference. (4 marks)

    (b) State **six** reasons that make it necessary for an entrepreneur to prepare a budget.
    (6 marks)

9. (a) Explain the ways which each of the following factors may promote entrepreneurship development in a country:

    (i)   education;
    (ii) attitude of the society.
    (4 marks)

    (b) Outline **six** guidelines that and entrepreneur should follow to develop a good business plan. (6 marks)

10. (a) Highlight **four** advantages of using the brainstorming method to generate a business idea. (4 marks)

    (b) Unique Enterprises was recently registered as a business name. Outline **six** benefits that the entrepreneur may derive from such registration. (6 marks)

11. (a) Outline **three** basis on which entrepreneurs may be classified listing **two** examples in each case. (6 marks)

    (b) State **four** characteristics of a socially responsive employer. (4 marks)

12. (a) Highlight **four** benefits of on-line marketing to a customer. (4 marks)

    (b) Explain each of the following features of a good business website:

    (i)   appearance;
    (ii)   content;
    (iii) usability.

    (6 marks)

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