2506/101
2507/101
ENTREPRENEURSHIP AND
COMMUNICATION TECHNOLOGY
June/July 2017
Time: 3 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN AERONAUTICAL ENGINEERING
(AIRFRAMES AND ENGINES OPTION)
(AVIONICS OPTION)

MODULE I

ENTREPRENEURSHIP AND COMMUNICATION TECHNOLOGY

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of THREE sections; A, B and C.
Answer a total of FIVE questions in the answer booklet provided as shown below:
answer Question 1 (compulsory) and any other question from section A;
answer TWO questions from section B;
answer any ONE question from section C.
All questions carry equal marks.
Maximum marks for 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.**

SECTION A: INFORMATION COMMUNICATION TECHNOLOGY (40 marks)

Answer Question 1 (compulsory) and any other question from this section.

1. (a) Outline **four** characteristics of mainframe computers.

    (4 marks)

    (b) Describe each of the following utility software:

    (i) sort utility;
    (ii) merge utility;
    (iii) loader.

    (6 marks)

    (c) Explain **three** limitations of using the Optical Character Reader (OCR) as an input method.

    (6 marks)

    (d) Explain **two** factors that an operating system supplier should consider when recommending an operating system for an organization.

    (4 marks)

2. (a) Describe the following functions of an operating system:

    (i) interrupt handling;
    (ii) job scheduling.

    (4 marks)

    (b) Explain **four** differences between a Local Area Network (LAN) and a Wide Area Network (WAN).

    (8 marks)

    (c) Explain **four** security measures that an organization should take to protect data processing systems from destruction by fire.

    (8 marks)

3. (a) Explain **three** ways in which word processing features may be used to reduce the length of a text document.

    (6 marks)

    (b) Describe the procedure that should be followed in selecting a short array of data in a worksheet.

    (4 marks)

    (c) Explain **three** negative effects of increased electronic networking on computer security.

    (6 marks)

    (d) Differentiate between text acquisition and text composition in respect to desktop publishing.

    (4 marks)

4. (a) Explain **three** functions of a database server in a client server system.

    (6 marks)

    (b) A student wishes to print a presentation in the form of a handout with three slides per page. Outline the steps that the student should follow.

    (6 marks)

(c)   Explain the difference between the following cell references as used in spreadsheets:

     (i)   B2:C10
     (ii) $B$2:$C$10   (4 marks)

(d)   Distinguish between graphic builds and graphics as used in presentation applications.
                                                                                     (4 marks)

SECTION B: ENTREPRENEURSHIP (40 marks)

*Answer **TWO** questions from this section.*

5.   (a)   Explain **five** factors that may hinder the growth of entrepreneurship in a developing country.   (10 marks)

     (b)   Self employment has become popular with many young graduates in the recent past. Explain **five** reasons that may account for this trend.   (10 marks)

6.   (a)   Explain **five** limitations that may be associated with the partnership form of business ownership.   (10 marks)

     (b)   Outline **five** ways through which a business may demonstrate social responsibility to its employees.   (10 marks)

7.   (a)   Outline **five** consequences of poor time management in an organization.   (10 marks)

     (b)   Highlight **five** myths that are associated with entrepreneurship in Kenya.   (10 marks)

8.   (a)   Explain **five** benefits that an organization may derive from adopting information communication technology (ICT) in its operations.   (10 marks)

     (b)   Outline **five** types of information that should be contained in the business description section of a business plan.   (10 marks)

SECTION C: COMMUNICATION SKILLS (20 marks)

Answer any ONE question from this section.

9. (a) Identify **six** methods that may be used for upward communication in an organization.

(3 marks)

(b) State **five** limitations of grapevine communication.

(5 marks)

(c) Conflicts often arise among participants during a meeting. Outline **four** strategies that a chairperson may adopt to minimise such conflicts.

(4 marks)

(d) Explain **four** guidelines that management should follow when dealing with customers who are suspicious about the operations of a business.

(8 marks)

10. (a) State **four** characteristics of a good business report.

(4 marks)

(b) Explain **two** reasons that make dress and grooming an important aspect when preparing for a job interview.

(4 marks)

(c) Highlight **four** limitations of using e-mail for business communication.

(4 marks)

(d) Explain **four** circumstances under which a memorandum may be written in an organization.

(8 marks)

THIS IS THE LAST PRINTED PAGE.