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451/1
COMPUTER STUDIES
PAPER 1
(THEORY)
JULY / AUGUST - 2010
TIME: 2 ½ HRS

RARIEDA DISTRICT JOINT EVALUATION TEST - 2010
Kenya Certificate of Secondary Education (K.C.S.E)

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COMPUTER STUDIES
PAPER 1
(THEORY)
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Instructions to candidates

1. This paper consists of TWO sections; A and B
2. Answer all questions in sections A.
3. Answer question 16 and any other three questions from section B.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	
A	1 – 15	
B	16	
	17	
	18	
	19	
	20	
TOTAL MARKS		

This paper consists of 12 printed pages.

Candidates should check to ensure that all pages are printed as indicated and no question(s) is missing

SECTION A (40 MKS)

1. State three data representation codes system used in computer. [3mks]
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.....

2. [a] Using a simple sketch, illustrate the
i] REPEAT..... UNTIL Control structure. [2mks]

ii] WHILEDO Control structure. [2mks]

3. [a] What is a hexadecimal notation in number coding. [1 mk]
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[a] Perform the following conversions. [4mks]

i] 110.0112 to decimal.
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ii] 3BD16 to Binary.

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4. [a] What is computer crime? [1mk]

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[b] Explain the following types of computer crimes [2mks]

i] Piracy

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ii] Fraud

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iii] Espionage

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iv] Cracking

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5. Describe the VSAT technology. [2mks]

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6. We are advised not to use liquid based and powder fire extinguishers in the computer lab. Give two reasons for this. [2mks]

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7. Distinguish between CD-R and CD-RW [1mk]

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8. Distinguish between manual data processing and mechanical data Processing. [2mks]

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9. Explain the following factors you would consider when selecting computer hardware.

i] Multimedia capability. [1mk]

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ii] Warranty [1 mk]

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10. Briefly describe how data is represented in optical disks. [2mks]

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11. [a] What is a word processor. [1 mk]

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[b] Explain the following as used in Ms Word.

i] Cropping and Grouping. [2mks]

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ii] Superscript and subscript. [2mks]

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iii] Document and template. [2mks]

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12. What is a nested function. [2mks]

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13. Define the following terms as used in Ms Excel. [2mks]
i] Workbook.

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.....
ii] Worksheet.

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14. You are creating a fancy timetable for your school where the contents of your cell are multi line and rotated to 30 degrees. Explain the procedure. [2mks]

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15. List four types of computers and arrange them according to their size. [2mks]

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SECTION B (60MKS)

16. The area of a right angle triangle is given by the formula $A = \frac{1}{2} b h \text{ cm}^2$ where $h > 0$ is the height in cm and $b > 0$ is the base in cm

[a] Draw a flow chart that calculates the area of the triangle only if the entered a value for h is greater than for b. [6mks]

[b] List down four limitations of using a flowchart over pseudo code during Program design stage. [4mks]

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[c] What does the term programming mean. [1mk]

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[d] Distinguish between source code and object code. [2mks]

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[e] Give two advantages of machine languages. [1 mk]

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[e] What is syntax? [1mk]

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17. [a] Define the following terms. [2mks]

i] Database

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ii] DBMS.....

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[b] State four disadvantages of manual filling system over electronic filing. [4mks]

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[c] Explain the following field properties in Ms Access program giving appropriate example for each case.

i] Input mask. [2mks]

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ii) Default value [2mks]

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[d] Explain the following features of Ms-Access program. [2mks]

i] Table

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ii] Query

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[e] What is a foreign key as used in table design? [1mk]

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[f] Apart from Ms- Access, list four other **application programs** used to carry out similar Tasks. [2mks]

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18. [a] Distinguish between **Baseband** and **Broadband** in networks. [2mks]

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[b] Give a reason why a transceiver is most appropriate for use in a base band Network. [1mk]

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[c] Explain the meaning of the term. [2mks]

[i] Computer Network.
.....

ii] Bandwidth in networking.
.....

[d] What is the function of a switch in a network.. [1mk]
.....

[e] Differentiate between hyperlink and search engine as used in the net. [2mks]
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[b] Explain the following: [5mks]

[i] Modem.....
.....

ii] Protocols.....
.....

iii] HTTP.....
.....

iv) Multiplexing.....
.....

v] www.....
.....

19. [a] Explain computer deployment in the following economic areas. [6mks]

i] Communication
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ii] E-commerce
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.....

iii] Education

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[b] What is the role of the following professionals. [6mks]

(i) Web designer

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(ii) Web administrator

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(iii) Data network administrator

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[c] Name any 3 career opportunities that one can get into as result of learning programming languages.

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20. [a] List 4 functions of an operating system [4mks]

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[b] State 5 factors to consider when choosing an operating system. [5 mks]

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[c] State 3 advantages of GUI. [6mks]

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[d] State 2 disadvantages and one advantage of command line user interface [3mks]

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