

Name: ..... Index no .....  
School: ..... Candidate's sign .....  
Date: .....

451/1  
COMPUTER STUDIES  
PAPER 1  
(THEORY)  
JULY/AUGUST 2011  
TIME 2 ½ HOURS.

# MUMIAS DISTRICT JOINT EVALUATION EXAM.

*Kenya Certificate of Secondary Education (K.C.S.E.)*

Computer Studies  
Paper 1

## INSTRUCTIONS TO CANDIDATES

- Write your **name** and **index number** in the spaces provided above
- This paper consists of **Two** sections **A** and **B**.
- Answer **ALL** questions in section **A**.
- Answer question 16 and any other **three** questions from section **B**.
- All answers should be written in the spaces provided on the question paper.

## FOR OFFICIAL USE ONLY

SECTION	QUESTIONS	CANDIDATES SCORE
A	1-15	
B	16	
	17	
	18	
	19	
	20	
TOTAL SCORE		

SECTION A (40 MARKS)

1. Define the following terms as used in computer software. (4mks)

a) Integrated software

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b) Customized software

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c) Software suite

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d) Software patch

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2. Distinguish between a word and wordlength as used in data representation. (2mks)

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3. Perform the following binary arithmetic. (2mks)

1001011.011-111.111

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4. What is printed by the following algorithm? (3mks)

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X= 1
While x <= 8 do
    Y= 2x + (x*x)4
    Print y
    X = x + 2
End while
```

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5. Define the following terms as used in Microsoft excel chart. (3mks)

a) data range

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b) data series

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c) data labels

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6. a) List **three** characteristics of a primary key. (3mks)

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b) What is a database model? (1 mk)

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7. Name **three** disadvantages of telecommuting to the employer. (3mks)

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8. List **three** duties of a database administrator. (3mks)

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9. You have been asked to select input devices that would be used by physically disabled persons in an organization. List **three** devices and identify the kind of person that would be able to use the device. (3mks)

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10. There are **two** types of flat panel screen monitors, LCD and plasma. Explain the difference between the two. (2mks)

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11. State **two** attributes of a monitor that affect its display and explain how the monitor is affected. (2mks)

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12. Explain how the operating system controls the following resources (3mks)

i) Processor

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ii) Main memory

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iii) Input and output devices

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13. What is deadlock in reference to operating systems? (1 mk)

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14. Describe any **four** editing features found in Microsoft word. (2mks)

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15. Describe the following terms as used in desktop publishing. (3mks)

i) Master pages

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ii) Tracking

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iii) Kerning

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**SECTION B**

16. a) List **four** characteristics of first generation languages. (4mks)

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- b) Write a pseudocode for a program that can accept the age of students and count the number of students in a class. The program should calculate the average age of the group of students if the data entry is terminated by the value 999. The program should print the number of students in the class and the average age of the students (6mks)

- b) Draw a flowchart for the pseudocode above. (5mks)

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17.
    - a) Distinguish between a mail server and mail client. (2mks)
    - b) What is a uniform resource locator? (1 mk)
    - c) Explain the following terms (4mks)
      - i) Hypertext
      - ii) Hypermedia
      - iii) Hyperlink
      - iv) FTP
    - d) Distinguish between uploading and downloading. (2mks)
    - e) List **three** functions of a browser. (3mks)
    - f) Name **three** basic elements of an e-mail compose window. (3mks)
  18.
    - a) Distinguish between physical and logical topology, giving an example in each case. (2mks)
    - b) St. Peter's Mumias Boys wanted to network computers in their school's computer laboratory so that they can share resources. The computer laboratory has 48 computers. The school's network administrator wanted all computers on the network to act as servers and clients at the same time.
      - i) Identify the type of local area network that was proposed by the network administrator. (2mks)
      - ii) State the disadvantage associated with the proposed network type. (2mks)
      - iii) Advise the school on the best type of LAN, Network Devices, Communication media and network software that will be fast, efficient and economical for the school. (4mks)
      - iv) Identify **four** resources that will be shared on the network. (2mks)
    - c) List **three** disadvantages of fiber optic cable. (3mks)
  19.
    - a) List **six** ways in which data integrity can be compromised. (6mks)
    - b) Distinguish between spyware and antispyware. (2mks)
    - c) Describe biometric security. (2mks)
    - d) Give **five** general rules that must be observed to keep within the law when working with data and information. (5mks)
  20.
    - a) A student at Booker Academy has a document of 10GB in a hard disk. He wants to transfer the document into a floppy disk of 1.44MB. Determine the number of floppy disks he requires. (3mks)
    - b) List **two** differences between buffers and registers. (2mks)
    - c) State any **three** disadvantages of a magnetic diskette. (3mks)
    - d) Highlight **four** characteristics of a flash memory. (4mks)

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