

NAME DATE

INDEX NO. CANDIDATE'S SIGNATURE

451/1
COMPUTER STUDIES
PAPER 1
(THEORY)
JULY/AUGUST, 2010
TIME: 2½ HOURS

MBOONI WEST DISTRICT JOINT EVALUATION TEST
Kenya Certificate of Secondary Education

451/1
COMPUTER STUDIES
PAPER 1
(THEORY)
TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

Write **your name** and **index number** on the space provided above.
This paper consists of two sections **A** and **B**.
Answer all questions in section **A**.
Answer question 16 (**Compulsory**) and any other **THREE** questions in section **B**.
All answers should be written in the spaces provided in the question paper

FOR EXAMINER'S USE ONLY.

Section	Question	Candidate's score
A	1 – 15	
B	16	
	17	
	18	
	19	
	20	
Total score		

*This paper consists of 10 printed pages.
Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

SECTION A. (40 MARKS)

Answer all questions in this section.

- 1. One function of an operating system is to control computer resources. State **four** resources under operating system control 2 Marks

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- 2. a. Define the term plotter 2 Marks

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- b. List two types of plotters 1 Mark

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- 3. Explain the following terms as used in the word processing 4 Marks
 - a. Indenting

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- b. Alignment

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- c. Foot note

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- d. Endnote

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- 4. List three application areas of artificial intelligence. 3 Marks

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- 5. Differentiate between COM ports and LPT ports. 2 Marks

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6. List **three** factors to consider when deciding on the choice of an electronic data processing method 3 Marks

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7. Ventilation is an important practice in the computer lab because it enhances proper circulation of air. Outline **three** ways in which air is regulated in the computer room. 3 Marks

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8. List **four** advantages of optical disks over floppy diskettes 4 Marks

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9. What does the following control measures against computer crime involve? 4 Marks

a. Audit trail

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b. Data encryption

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c. Log files

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d. Passwords

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10. List **four** examples of flat panel displays 2 Marks

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11. Define the term mail merging 2 Marks

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12. Name **two** files that are created in mail merging process

2 Marks

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13. While purchasing computers for his school the principal Musambweni high school decided to consult an expert. As a computer student advise him on **four** hard ware considerations

2 Marks

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14. Name **four** methods used in data management on a worksheet

2 Marks

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15. List **four** formatting techniques used in ms excel

2 Marks

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SECTION B. (60 MARKS)

Answer question 16 and any other three questions

16. a. Study the pseudocode below and design a flowchart for the pseudocode.

8 Marks

Set total to zero

Set grade counter to one

While grade counter is less or equal to ten

Input the next grade

Add the next grade into total

Add one to the grade counter

Set the class average to the total divided by ten

Print the class average.

b. Describe **three** methods of testing the program for errors

3 Marks

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c. List down **four** selection controls use in writing a program

2 Marks

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d. Outline **four** benefits of modularization in programming

2 Marks

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17. a. Convert the following numbers of their decimal equivalent

6 Marks

a. 11.011_2

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b. 11.1011_2

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c. 111.10101_2

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b. Outline **four** ways in which data integrity may be maintained 4 Marks

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c. Discuss **four** advantages of using questionnaires as a fact finding tool 4 Marks

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d. What is the role of a recycle bin in Ms. Word? 1 Mark

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18. a. List **three** advantages of fibre optic cables 3 Marks

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b. Differentiate between static RAM and dynamic RAM. 4 Marks

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c. Describe the following types of queries found in Ms. Access 3 Marks

i. Update

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ii. Append query

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ii. Make table query

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d. Distinguish between source program and object code 4 Marks

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e. Distinguish between a mouse pointer and an insertion point 1 Mark

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19. a. Outline **four** major ways the company network administrator can enforce good network practice on user of the company LAN 4 Marks

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b. Identify **four** major categories of data handling process which make up a computer system 2 marks

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c. Outline **four** contents of user manual that would help the user to run the system with minimal guidance

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d. Distinguish between dynamic and static systems 2 Marks

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e. List **three** programming languages that can be used by web developers 3 Mark

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20. a. Masai Teacher’s college has decided automate its library for effective services to the students
Identify **four** methods they are likely to use to gather information during system development 4 Marks

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b. Define the following terms in relation to internet 4 Marks

i. Downloading

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ii. Hyperlink

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iii. Web browsers

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iv. Internet service providers

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c. Differentiate between sorting and filtering as used in electronic spreadsheet program 2 Marks

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d. Define the following terms 3 Marks

i. Spam mail

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ii. Disk

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iii. On board modem

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e. Define the term WIMP as used in computing

2 Marks

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