

Name..... Index No.....
School..... Candidate's sign.....
Date.....

451/1

COMPUTER

(THEORY)

PAPER 1

JULY / AUGUST 2010

Time: 2 ½ Hours

TESO NORTH DISTRICT JOINT EVALUATION TEST – 2010
Kenya Certificate of Secondary Education (K.C.S.E)

451/ 1

COMPUTER

THEORY

PAPER 1

JULY / AUGUST 2010

Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- Write your name, school and Index number in the spaces provided above.
- Answer **ALL** the questions in the spaces provided

For Examiners Use Only

Question	Maximum	Score
A	1 - 15	
B	16	
	17	
	18	
	19	
	20	

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

SECTION B (60 MKS)

Answer ALL questions in this section.

1. List two types of computers that we can have if we classify them by function (1 mk)

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2. State four disadvantages of first generation computers (2mks)

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3. Name any two types of input devices (1mk)

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4. Give the name of CPU registers used to perform the following: (2mks)

- a) Store the address of the next instruction to be executed.

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- b) Stores instructions currently being executed.

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5. Differentiate between standard package software and user-developed software (2mks)

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6. Programs and data can be lost through various means. Give two measures that can be taken to avoid loss of data through unauthorized access. (2mks)

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7. i) Define information processing (1 mk)

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ii) What is a parity bit as used in data representation (1mk)

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8. Describe the following processing methods (2mks)

a) Online

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b) Multiprocessing.

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9. i) What is word processing? (1 mk)

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ii) Give 4 advantages of using an electronic word processor rather than using the traditional typewriter. (4mks)

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10. i) Define the term programming (2 mks)

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ii) Describe the following categories of high level languages (4 mks)

a) Structured

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b) Object oriented.

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11. Explain any four factors that one would need to consider when selecting a printer (2 mks)

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12. Name six hardware factors considered when selecting a computer system (3mks)

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13. a) Convert the following octal number to its binary equivalent (2mks)
247₈.

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b) Subtract 110012 from 1111112.

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14. Write Ms-DOS commands used to do the following functions. (4mks)

a) Rename a file

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b) Delete a directory.

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c) Label floppy disk.

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d) Copy contents of one disk to another.

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15. Write the acronym DBMS in full
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SECTION B (60 MKS)

Answer Question 16 (Compulsory), and any other 3 questions in this section.

16. a) Draw a flowchart that will help to code in a high level language a program that would receive any four numbers, find their sum and average and display them. (8mks)

b) List any three disadvantages of high level languages (3mks)

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c) Give any four objectives that fourth generation languages were designed to meet. (4 mks)

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17. a) Write brief notes on random filling method. (4mks)

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b) State the elements of a computer file (3mks)

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c) Explain four types of computer processing files (4mks)

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d) Name the other three file organization methods other than random file organization (3mks)

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18. a) Define the following as used in programming (3mks)

i) Local Variable.

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ii) Global Variable.

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iii) Expression

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b) i) Define Normalization (2mks)

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ii) Mention 2 aims or uses of normalization (2mks)

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c) State any four types of input devices (2mks)

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d) What is a computer? (1mk)

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e) What is a computer bus (1 mk)

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f) Differentiate between impact and non-impact printers (4 mks)

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19. a) Define a computer network (1 mk)

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b) Apart from Metropolitan Area Network Explain 2 other types of Networks (2mks)

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c) Explain 2 limitations of networking (2mks)

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d) Briefly describe the stages of the system Development Life cycle (6 mks)

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e) Distinguish between soft and hard systems (2mks)

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f) Explain four characteristics of systems (2 mks)

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20. a) One of the elements of networking includes Communication devices. Explain the function of the following communication devices. (4mks)

i) Network Interface Card.

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ii) Hub.

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b) Explain how computers are applied in: (4mks)

i) Financial systems.

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ii) Reservation systems.

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c) Explain each one of the following bringing out the differences between them as applied to Impact of ICT on Society. (6mks)

i) Job Creation.

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ii) Job Replacement.

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iii) Job displacement.

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d) What is an expert system as concerns future trends in ICT. (1 mk)

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END