

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

451/1
COMPUTER STUDIES
PAPER 1
(THEORY)
July/August 2010
2 ½ HOURS

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

COMPUTER STUDIES
PAPER 1
(THEORY)
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INSTRUCTION TO CANDIDATES

1. Write your name and index number in the spaces provided above
2. Sign and write the date of examination in the spaces provided.
3. The paper contains two sections: Section **A** and **B**.
4. Answer all questions in section **A**
5. Answer question 16 and any other **Three** questions from section **B**
6. All answers should be written on the question paper in the spaces provided below each question.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	SCORE
A	1 – 15	
B	16	
	17	
	18	
	19	
	20	
Total		

ensure that all pages are printed as indicated and no questions are missing

SECTION I

Answer all the questions in this section in the spaces provided.

1. (a) Write the acronym BIOS in full (1mk)

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- (b) What is the purpose of BIOS in a computer system? (1mk)

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2. State the actions that should be taken in case of fire outbreak in the computer laboratory. (2mks)

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3. Name and explain the three parts of a task bar. (3mks)

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4. The electronic commerce (e – commerce) has enabled people to do business through the internet. This is enough to serve time, spend less and reduce movements. What could be the major obstacles to this trade? (2mks)

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5. State any two functions of a UPS. (2mks)

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6. (a) State one advantage of using TWOS complement over ONES complement. (1mk)

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- (b) Distinguish between bound and unbound controls as used in database. (2mks)
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7. Distinguish between insert and typeover modes of typing in word processing. (2mks)
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-
8. Define the following terms as used in data communication.
- (a) Noise (1mk)
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- (b) Multiplexing (1mk)
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- (c) Attenuation (1mk)
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9. A student in a school wanted to print a document but the printer could not print yet the online light was on and the printer paper was correctly placed. Name any other two possible reasons why the printing failed. (2mks)
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10. (a) State any two functions of a network administrator. (2mks)
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- (b) Explain the term flaming as used in internet communication (2mks)

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11. In most cases, files in a computer system have their extensions in order to identify their purpose. State the purpose of the following file type extensions.

(a) .EXE (1mk)

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(b) .BAT (1mk)

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(c) .SYS (1mk)

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12. (a) Define the term firmware (1mk)

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(b) Explain the purpose of geographical positioning system (GPS) as used in air traffic control system. (1mk)

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(c) Explain how data is represented on optical media. (2mks)

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13. Distinguish between hard system and soft system (2mks)

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14. State two types of computer dictionaries. (2mks)

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15. Explain the following terms used in operating systems.

(a) Disk partitioning

(1mk)

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(b) Disk formatting

(1mk)

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(c) Disk defragmentation.

(1mk)

SECTION B (60 MARKS)

Answer question 16 and any other three questions from this section

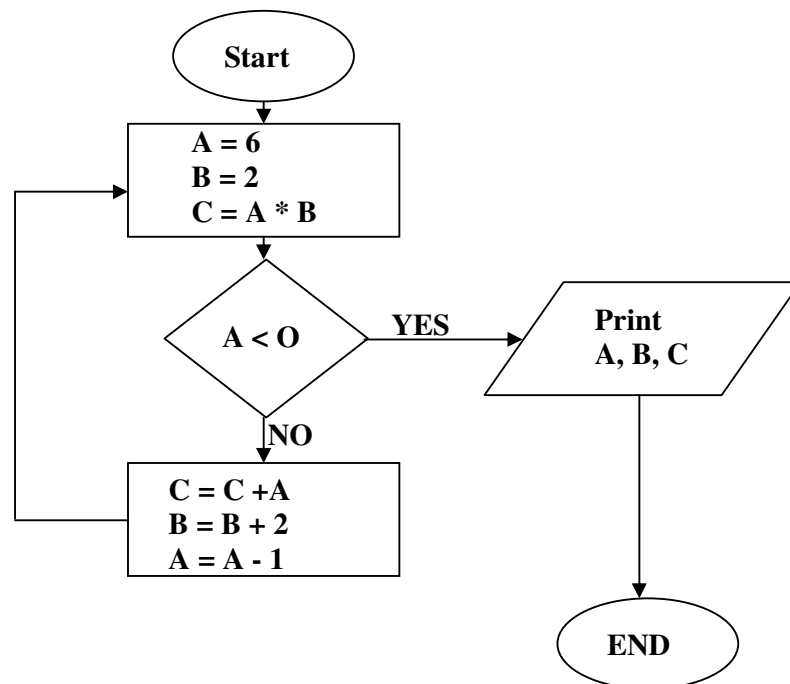
16. (a) Define the term “Dry running” as used in program development.

(2mks)

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(b) Write the printed values of A, B and C in the flowchart below.

(3mks)



(c) Develop a pseudocode for the flowchart in (b) above.

(5mks)

(d) Give two examples of language translators used in programming.

(2mks)

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(e) Name the stage of program development cycle where:

(i) A user guide would be written.

(1mk)

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(ii) System charts would be drawn.

(1mk)

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(iii) Staff training is done.

(1mk)

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17. Your school has decided to replace its library control system. The current system was implemented ten years ago but has restricted reporting facilities and has a text-based interface. The school intends to replace the old system with a new computerized system and is considering both “parallel running” and “direct changeover”

(a) (i) Briefly explain the terms parallel running and direct changeover as used in implementation. (2mks)

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(ii) Give two disadvantages of direct changeover over parallel running. (2mks)

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(iii) Mention any two advantages of running both the manual and the computerized system simultaneously. (2mks)

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(b) Explain the “Line of sight” principle in data communication. (2mks)

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(c) (i) What is a website? (2mks)

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(ii) Name three facilities that are needed to connect to the internet. (3mks)

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18. (a) State:

(i) Two advantages of networking (2mks)

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(ii) Two disadvantages of networking. (2mks)

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(b) State any three functions of network operating system. (3mks)

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(c) Distinguish between logical topology and physical topology. (4mks)

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(d) State:

(i) Two advantages of star topology. (2mks)

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(ii) Two disadvantages of bus topology (2mks)

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19. (a) What is the function of each of the following desktop publishing tools?

(i) Hand (1mk)

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(ii) Constrained line (1mk)

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(iii) Cropping (1mk)

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(b) Name three types of non-printing guides in pagemaker (3mks)

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(c) Explain the purpose of the following types of special memories.

(i) Buffers (2mks)

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(ii) Cache memory (2mks)

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(c) Distinguish between private data and confidential data. (2mks)

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(d) Explain the following terms:
(i) Data encryption (1mk)

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(ii) Program patch (1mk)

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(e) Convert the Hexadecimal number ABCD to octal (3mks)

