

Name: Index No:

Candidate's signature.....

Date.....

**KAKAMEGA NORTH SUBCOUNTY JOINT EXAMINATIONS
KCSE Trial Exam**

451/1
COMPUTER STUDIES
PAPER 1 (Theory)
JULY 2018
2 ½ Hours

INSTRUCTIONS TO STUDENTS

Write your name and index number in the space provided above.

*This paper consists of **TWO** sections; **A** and **B**.*

*Answer **ALL** the questions in section **A**.*

*Answer question 16 and any other **THREE** questions from section **B**.*

All answers should be written in the space provided in this question paper.

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

This paper consists of 10 printed pages.

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

SECTION A (40marks)*Answer all questions from this section.*

1. Define a primary key field (3mks)

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2. State *three* functions of a database management system. (3mks)

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3. State *three* functions of the Central Processing Unit (CPU) (3mks)

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4. Explain the difference between a system software and application programs. (2mks)

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5. State any *four* criteria for choosing an operating system (4mks)

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6. Worksheet cells are referenced using the column letter and row number e.g. D2 is cell in column D and row 2. Use the sample worksheet provided to answer the questions below

	A	B	C	D	E	F
1	Month	Jan.	Feb.	Mar.	April	Total
2	Fees	460	460	460	460	
3	Food	300	350-	305	270	
4	Electricity	100	100	100	100	
5	Fuel	150	150	150	150	
6	Transport	380	270	150	300	
7	Total					

a) Write down the data type that is stored in cell C5 (1mk)

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b) What cell contains the data items representing transport for the month of February? (1mk)

.....

c) Write down the formula that may be used to compute the total in cell F6. (1mk)

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7. Explain any *three* of the terms: Creating, editing, printing and saving as used in word-processing. (3mks)

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8. What is the use of the search and replace feature in a Word-processor. (2mks)

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9. State *two* differences between Disk Operating System (DOS) and WINDOWS operating system. (2mks)

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10. Explain how each of the following would affect the suitability of a room for use as a computer room.

(a) Burglar proofed door- (1mks)

.....

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(b) Availability of taps and sinks in the room (1mks)

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11. List *three* differences between a microcomputer and a super – computer (3mks)

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12. Describe each of the following data processing methods (3mks)

(i) Batch processing –

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.....

(ii) Distributed processing-

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(iii) Multiprogramming

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13. List *three* disadvantages of using traditional file management method (3mks)

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14. State any *three* components of a local area network (1½mks)

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15. State *three* advantages of computer networking (1½mks)

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SECTION B

Answer question 16 and any other three questions from this section.

16 a) What is meant by each of the following terms:

(i) Pseudo code

(3mks)

.....

(ii) Flowchart

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b) A program is required to generate the product of the numbers between 0 and 100 in the series 5, 10, 15, 20.....100.

i) Draw a flowchart that can carry out this task

(6mks)

ii) Write a pseudo code for the flow chart in b(i) above (6mks)

17. (a) State **three** ways in which computer technology may affect employment patterns in organizations (3mks)
- (b) State and explain three reasons why the employments patterns are affected (6mks)
- (c) Suggest **three** strategies that can be employed to manage resistance to change (3mks)
- (d) Give **three** advantages of computerization in an organization (3mks)
18. (a) Identify **three** public Universities and three National polytechnics in Kenya where further computer training is offered, in each case state the highest level of qualification that can be acquired in computer training. (6mks)
- (b) Distinguish between “job replacement” and job displacement” in references to computerization (2mks)
- (c) Give **four** reasons why a firm may decide to computerize its operation (4mks)
- (d) An individual has a right to demand guarantee to privacy of personal information stored on a computer Give three such types of information (3mks)
19. (a) Subtract 0111_2 from 1001_2 (2mks)
- (b) Using a six bit two’s compliment, subtract 7 from 17 and give the answer in decimal notation (4mks)
- (c) Convert
- (i) $91B_{16}$ to octal (3mks)
- (ii) 376_8 to hexadecimal (3mks)
- (iii) 9.625_{10} to binary (3mks)

A series of 30 horizontal dotted lines spanning the width of the page, providing a template for handwriting practice.

