

Name: Index No...../.....

Candidate's Signature.....

Date.

451/1
COMPUTER STUDIES
Paper 1
Trial 1 - 2012
2 Hours

Kenya Certificate of Secondary Education (K.C.S.E) – Trial Examination

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above.
- 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 spaces provided on the question paper.

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

Trial 1

This paper consists of 10 printed pages

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SECTION A (40 MARKS)

1. The text in the text box below was composed using a word processor. The current cursor position is between the word "is" and "in"

Computer security is an increasingly important consideration. From authentication.....

Describe what happens to the text in the box above when each of the following keyboards keys are pressed.

- a) Tab
- b) Enter
- c) Home

2. State four characters which make computers better than beings. (4mks)

3. Give three reasons why primary storage devices are not used for secondary storage. (3mks)

4. Asha has a hardware shop and lathy, she is finding the task of managing daily sales in the shop overwhelming.

a) State a retail system that she should acquire. (1mks)

b) State two input devices that are used in retails system. (1mks)

c) Apart from enhancing the speed of operation, state two other benefits that Asha will gain from using such as system. (2mks)

5. The accounts department of a secondary school is using a system that generates invoices that are printed in triplicate using carbon papers.

a) Name one type of printer suitable for this. (1mks)

b) Give a reason for your answer in (a) above. (1mks)

6. A secretary saved documents in a computer. After sometimes she could not remember the name and the location of the file, state four file details or properties that are assigned a file by operating the system which can assist in tracing the file. (2mks)

7. A student tried opening an application program on a computer that was not functioning well. The program did not load and the operating system reported that the memory was insufficient. Give two courses of such response. (2mks)

8. State two measures that can be put in place control piracy of the software. (2mks)

9. Identify three hardware considerations to be made before installing an operating system. (3 marks)

10. A water company sends out clerks to read water meters. The data collected by the clerks is then fed into the computer and then all the bills are printed at the same time.

a) Name this type of the data processing (1mks)

b) State two advantages of this approach (1mks)

11. A school has acquired a system that imitates teachers. Student can learn by getting answers from the system which they normally get from the teacher. Give three advantage of this system. (3mks)

12. Pesa mingi company has offices in Nairobi and Kampala connected in a network. The management is convinced that someone is illegally gaining access to the data in their computers. State three ways in which the company can overcome this problem. (3mks)

13. State the purpose of each of the following in a data base designed.

a) Input mask

(1mks)

b) Default value

(1mks)

14. State the importance of considering the following factors when acquiring soft ware.

a) Warranty

(1mks)

b) Portability

(1mks)

15. State two applications area of real time systems

(2mks)

SECTION B 60 (MKS)

Answer question 16 and any other three questions from this section in the spaces provided.

16. Give two characteristics of scripting languages

(2mks)



b) Describe two types of errors that may be detected during program testing.

(4mks)

c) A company workers travel to work either by public or by private means. All workers are paid a travel allowance of Ksh 200, but those using private means are pain an additional of Ksh 100.

i) Write a pseudo code to determine a workers travel allowance.

(3mks)

ii) Draw a flowchart to determine a workers travel allowance.

(4mks)



iii) Other than occupying a large space, state two disadvantages of using a flowchart instead of pseudo code. (2 mks)

17.a) State three standard data coding schemes used in computing and electronic systems. (3mks)

b) Convert of the following numbers:

i) 110.101_2 to decimal (4mks)

c) 12.6875_{10} to Binary (4mks)



d) Using two complements perform the following binary arithmetic leaving the answer in binary notation.

i) $11012-100101_2$

(4mks)

18. What is meant by each of the following?

a) Cell margin

(2mks)

b) Cell border

(2mks)

c) Distinguish between each of the following:

i) Axis labels and data label

(2mks)

ii) Cropping and sizing

(2mks)

d) Figure 1 shows a section of a worksheet containing information on household items. Use it to answer the question that follow.

	A	B	C	D	E
1	Item description	No of unit	Costs per unit	Total cost	
2	Wheat flour	12	110		
3	Rice	6	145		
4	Sugar	7	140		
5	Salt	2	20		

Figure 1

i) Write a formula to calculate the total of rice. (1mks)

ii) The prices of all items increased by 10% and the value 10% is placed in cell b8. Using cell addresses with absolute referencing only; write a formula to calculate the new unit price of salt. (2 mks)

iii) Write a function to display the number of cells in which the cost per unit is equal to 110. (2mks)

iv) Write a function to display the least total cost for all items (2mks)

19. a) What is meant by each of the following terms as used in the Internet?

i) Surf (1mks)

ii) Uploading (1mks)

iii) Inbox (1mks)



b) A school has set up its network using wireless technology to link computer. State three problems that the school is likely to experience when using this technology. (3mks)

c) List three ways by which parents can protect their children from accessing inappropriate content from the Internet. (3mks)

d) Explain three problems associated with using e-mail technology for communication (6mks)

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