

NAME: ADM NO: Class

CANDIDATES SIGNATURE: DATE:

451/1

KCSE COMPUTER STUDIES PAPER 1 - THEORY

FORM 1

FEBRUARY -2018

MID TERM EXAMINATIONS

TIME: 2 ½ HOURS

FOCUS A365

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ST. CLARE GIRLS HIGH SCHOOL - GATUNDU

Kenya certificate of secondary education (K.C.S.E)

Instructions to candidates.

- Write your name and index number in the spaces provided above.
- Sign and write the examination date.
- Answer all the questions in the spaces provided in the question paper.
- Write your answers in English
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Candidate's score	Maximum score
	100
Teacher's Comment:	

This paper consists 9 of printed pages

Candidates should check to ascertain that all pages are printed as indicated and that no question is missing.

- 1 a) Describe the term computer 1 mk
- 2 Define the following terms in relation to computers
- a) Information 1 mk
- b) Data 1 mk
- 3 Write the following acronyms in full:
- a) UPS 1 mk
- b) PSU 1 mk
- c) VDU 1 mk
- 4 List the **four** major parts of a computer and their functions 8 mks

- 5 Distinguish between:
- a) Super computers and mini computer 2 mks

 - b) Digital computers and analogue computers 2 mks

 - c) Hybrid computers and dedicated computers 2 mks

 - d) Main frames and micro computers 2 mks

 - e) Special purpose computers and general purpose computers 2 mks
- 6 What is the main purpose of a computer? 1 mk
- 7 State **three** functions of a computer 3 mks

8 State **five** areas where computers are used and how they are used

10 mks

9 List **three** stages involved in transforming data into information

3 mks

- 10 State any **three** differences between *third generation* computers and *fourth generation computers*. 3 mks
- 11 State **two** differences between desktop and laptop computers 2 mks
- 12 List any **four** advantages of computers 4 mks
- 13 Briefly explain **two** similarities and **two** differences between human beings and computer systems 4 mks

- 14 Why is it advisable to install gaseous fire extinguishers in the computer lab other than water or powder extinguishers? 1 mk
- 15 State the uses of the following keys on the keyboard
- a) Return key (enter) 1 mk
 - b) Backspace key 1 mk
 - c) Delete key 1 mk
 - e) Caps lock 1 mk
 - f) Numlock 1 mk
- 16 Describe the following terms in relation to the usage of a computer mouse
- a) Scrolling 1 mk
 - b) Clicking 1 mk
 - c) Drag and Drop 1 mk

17 State **three** safety precautions that should be observed in the computer Laboratory to avoid users from physically damaging computers 3 mks

18 Describe any **two** practices that can cause fire in the computer laboratory 2 mks

19 Mokeira went into a computer shop to purchase a desktop computer. Underline from the list below **two** features she should *not necessarily* consider before purchasing it. 2 mks

- a) Processor speed
- b) Colour
- c) Memory capacity
- d) Storage capacity
- e) Multimedia capabilities
- f) Price
- g) Warranty
- h) Shape

20 Match the following technological advancements against the generation of computers they were used:

- | | | |
|------------------------|----------------------|-------|
| 1. VLSI | a) SECOND GENERATION | 4 MKS |
| 2. VACUUM TUBES | b) THIRD GENERATION | |
| 3. TRANSISTERS | c) FIRST GENERATION | |
| 4. INTEGRATED CIRCUITS | d) FOURTH GENERATION | |

- 21 Fill the blank spaces below:
- i _____ discovered the analytical engine and is also referred to as the father of modern computers. 1 mk
 - ii The first computer was referred to as _____ 1 mk
 - iii _____, _____ and _____ is the classification of computers in terms of functions 3 mks
 - iv The CPU of a microcomputer is also known as _____ 1 mk
 - v _____ is a component in the computer chassis used to convert alternating current to direct current for consumption by the computer. 1 mk
 - vi _____ is a peripheral device used to enter data in form of text into the computer. 1 mk
 - vii It is an input device and also a pointing device used specifically to play games with the computer. Its name is? _____ 1 mk
 - vii _____ is a gadget that can be used to input digital signatures into the computer. 1 mk
 - viii _____ is a term used to refer to pressing the mouse button once. 1 mk
 - ix _____ is a device that temporarily stores data in the computer. It is also referred to as the computer memory. 1 mk
 - x The _____ and the _____ work hand in hand to cool down the CPU during processing. 2 mks
- 22 a) Why is a computer referred to as an electronic device? 1 mk
- b) State **two** safety precautions used in the computer laboratory to ensure that computer users (liveware) are not susceptible to electrical shocks. 2 mks

- c) Most computer failures are caused by _____ and _____ and _____ 2 mks
- d) Distinguish between the CPU and the System unit 1 mks
- e) Describe the correct procedure that is normally used by computer users to start up computers 3 mks
- f) Describe the correct procedure that is normally used by computer users to shut down computers 3 mks

~ **END OF PRINTED PAGES** ~