

NAME: ..... ADM NO: ..... Class .....

CANDIDATES SIGNATURE: ..... DATE: .....

451/1

KCSE COMPUTER STUDIES PAPER 1 - THEORY

FORM 2

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
	<b>100</b>
<b>Teacher's Comment:</b>	

*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) Name the **two** buttons on top of a mouse 2 mk
- b) Of the mouse buttons named in (a) above, which button displays a drop down list of commands when pressed? 1 mk
- 2 Match the following keys on the keyboard with their corresponding categories 5 mks
- | a) <b>Keys</b>                  | <b>Category</b>                     |
|---------------------------------|-------------------------------------|
| i. Alt, ctrl, Shift, esc        | a) Cursor movement and editing keys |
| ii. A-z, ?, ', [, 1, 2, 3 ..... | b) Numeric keypad keys              |
| iii. 0, 1, 2, 3 - 9, +, -       | c) Special PC operation keys        |
| iv. F1, F2, ..... F12           | d) Function keys                    |
| v. Arrow keys, page up, ...     | e) Alphanumeric keys                |
- two**
- 3 Write the following acronyms in full:
- a) BIOS 1 mk
- b) POST 1 mk
- 4 State the **three** uses of a UPS (uninterruptible power supply) 3 mks
- 5 Distinguish between:
- a) Super computers and micro computer 2 mks
- b) Digital computers and analogue computers 2 mks

c) Computer memory and human memory

2 mks

d) Main frames and laptops

2 mks

6 What is the main purpose of a VDU?

1 mk

7 State **three** functions of a computer

3 mks

8 State **two** uses of computers in each of the following application areas

a) Hospitals

2 mks

b) Supermarkets

2 mks

c) Agriculture

2 mks

d) Government 2 mks

e) Media 2 mks

9 State **two** reason why computers should be shut down using the right procedure. 2 mks

10 State any **three** differences between *second generation* computers and *fifth generation computers*. 3 mks

11 Distinguish between cold booting and warm booting 2 mks

13 Briefly explain **two** similarities and **two** differences between human beings and computer systems 4 mks

- 14 Why is it advisable to install security alarms in the computer laboratory? 1 mk
- 15 Define the following terms as used with computers
- a) Artificial Intelligence 1 mk
  - b) Bytes 1 mk
  - c) GIGO – Garbage In Garbage Out 1 mk
  - e) Power Surge 1 mk
  - f) Hertz 1 mk
- 17 Describe the following terms in relation to the usage of a computer mouse
- a) Scrolling 1 mk
  - c) Mouse Pointer (cursor) 1 mk
- 18 State any **three** safety precautions that should be observed in the computer to avoid destruction of computers 3 mks

- 19 Describe any **two** factors to consider when constructing the computer laboratory. 2 mks
- 20 Every time she saved her work in the flash disk, Mokeira could not locate it from another computer. State any **three** factors that may have caused this phenomena. 2 mks
- 21 Match the following technological advancements against the generation of computers they were used: 4 MKS
- |                        |                      |  |
|------------------------|----------------------|--|
| 1. VLSI                | a) SECOND GENERATION |  |
| 2. VACUUM TUBES        | b) THIRD GENERATION  |  |
| 3. TRANSISTORS         | c) FIRST GENERATION  |  |
| 4. INTEGRATED CIRCUITS | d) FOURTH GENERATION |  |
- 22 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 \_\_\_\_\_ 3 mks  
is the classification of computers in terms of functions
- 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 inform 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
- 23 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 \_\_\_\_\_ 2 mks
- d) Distinguish between the CPU and the System unit 2 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

- 24 After switching on her computer, Boke discovered that it was taking a lot of time to start contrary to what she was used to. State **four** reasons that may have caused Boke's computer to delay in booting and give a solution in each reason. 8 mks

~ **END OF PRINTED PAGES** ~