**Name……………………………………………………Adm. No………..………………..**

**Date ……………………………………….....................Student’s Signature………………**

**451**

**COMPUTER STUDIES**

**PAPER**

**(THEORY)**

**TIME: 2 ½ HRS**

**SET 1**

FORM 1

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

Instructions to candidates

This paper consists of TWO sections, A and B

answer all questions in sections A and B

for examiners use only

|  |  |  |
| --- | --- | --- |
| section | Question | SCORE |
| A | 1 – 15 |  |
| B | 16 |  |
| 17 |  |
| 18 |  |
| 19 |  |
| 20 |  |
| Total marks |  |

***This paper consists of 8printed pages.***

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

**SECTION A (40 MARKS)**

1. What is a peripheral device.  **(2 marks)**
2. Define the term program . **(2 marks)**
3. State **three** functions of the Central Processing Unit.  **(3 marks)**
4. List the two forms of Data and give a brief explanation of each.

i. **(1 mark)**

ii. . **(1 mark)**

1. James is a scientist. He uses speech method to enter her observations for an experiment into a computer.
2. Define an input Device. **(1 mark)**
3. Give an example of an Input device. . **(1 mark)**
4. a) What is the meaning of a “data processing?” **(1 mark)**

b) Differentiate between data and Information. **(2 marks)**

1. a.) Define the term microcomputers. **(1 mark)**

 b) Give **four** examples of Microcomputers. **(2 marks)**

**8.** Explain **three** Differences between Data and Information. **(3 marks)**

**9.** Classify the following keyboard characters.

a) A, B, C........Z **( ½ marks)**

b) O, 1, 2, 3.....9 **( ½ marks)**

c) F1..............F12 **( ½ marks)**

d) Page up, Arrow keys, End, Home **( ½ marks)**

e) Ctrl, Shift, Alt **( ½ marks)**

f) Del, Insert **( ½ marks**)

**10. i)** List **Four** salient features of a computer. **(2 marks)**

 **ii) Explain the meaning of the word Diligence in relation to computers. (1 mark)**

**11**. List Three components found inside the System Unit.

i) (**1 mark)**

ii) **(1 mark)**

iii). **(1 mark)**

**12.** Name the Three factors that are used to classify computers.

i)  **(1 mark)**

ii) **(1 mark)**

iii). **(1 mark)**

**13.** List and give the functions of computer buses.

i) **(1 mark)**

ii) (**1 mark)**

iii). **(1 mark)**

**14.** Write the sequence of computers in descending order according to their physical size and processing power. **(2 marks)**

**15.** Name three examples of Desktop Computers? **(3 marks)**

**SECTIOB B.** Answer **question 16** and any other **three** questions

**16. a)** Define the terms below.

 **i)** Embeded Computer **(1 mark)**

 **ii)** Artificial Intelligence **(1mark**)

**iii)** Dedicated Computer **(1mark)**

**b)** Draw a well labeled diagram of a computer outlining the physical parts. **(5 marks)**

**c)** Draw a T-Table that outlines any five differences between a computer and a calculator. **(5marks)**

**d)** What type of data does a hybrid computer process? **(2 marks)**

**17. a)** Distinguish between the following terms.

 **i)** Computer. **(2 marks)**

 **ii)** Computer System. **(2 marks)**

 **b)** List the Advantages of using computers. **(6 marks)**

 **c)** Give Five reasons why a mobile phone is also referred to as a computer. **(5 marks)**

**18. a)** Briefly describe each of the following mouse operations.

i) Clicking **(2 marks)**

ii) Double Clicking (**2 marks)**

iii) Right Clicking **(2 marks)**

1. Define a Keyboard. **(1 mark)**

  **c)** List any four types of keyboards.  **(4marks)**

 **d)** Name four type of ports found at the back of a System Unit.  **(4marks)**

**19. a)** Differentiate the two types of system unit below:

 **i)** Tower type System unit (**2 marks)**

 **ii)** Desktop System unit (**2 marks)**

 **b)** Explain four measures that protect computers in the computer Laboratory. **(4 marks)**

 **c)** Explain Three measures that protect the user in the computer Laboratory. **(3 marks)**

 d) Explain the effect of information technology in:

 i) Employment (**2 marks)**

 ii) Environment. **(2 marks)**

**20. a**) The largest most powerful computer is called ­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (**1mark)**

 **b)** Explain the following communication devices

 i) Palmtop Computers (**2 marks)**

 ii) P.C. **(2 marks)**

 **c)** The speed of a computer is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. **(2 marks)**

 **d)** Name the three key terms that define a computer. **(3 marks)**

 **e)** Write the following acronyms in full.

1. POST **(1 mark)**
2. BIOS  **(1 mark)**
3. CMOS **(1 mark)**
4. PDA  **(1 mark)**

v CPU  **(1 mark)**

..................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................