

Name.....Adm. No.....

Class.....

451/1

COMPUTER STUDIES

PAPER 1 (THEORY)

MARCH 2021

TIME: 2 ½ HRS

Gianchere Friends High School

Terminal Computer Studies Examinations

Form 2 End of Term 2 100 Marks Exams

Instructions to candidates

1. *This paper consists of TWO sections; A and B*
 2. *answer all questions in sections A. (40 Marks)*
 3. *Answer any four questions from section B. (60 Marks)*
 4. *Answer all questions in English.*
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Score Summary for examiner's use only

SECTION	QUESTION	
A	1 – 13	
B	14	
	15	
	16	
	17	
	18	
TOTAL MARKS		

This paper consists of 9 printed pages.

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

Section A: 40 Marks

1. State **two** hardware technological differences between the second generation and the third generation computers. **(2 marks)**

2. State **two** ways of ensuring proper ventilation in a computer room. **(2 marks)**

3. (a) Explain the term toggle key as used in computer keyboard. **(2 marks)**

(b) List examples of toggle keys on a computer keyboard. **(2 marks)**

4. State **three** factors to consider when selecting an operating system to install in a computer. **(3 marks)**

5. Differentiate between analogue data and digital data as used in computers. **(2 marks)**

6. State **two** reasons for the increased use of laptop computers in government offices. **(2 marks)**

7. a) Explain **three** features of a graphical user interface as used in computers. **(6 marks)**
- b) State the function of each of the following computer keyboard keys:
- (i) Caps Lock **(1 mark)**
 - (ii) Shift **(1 mark)**
 - (iii) Home **(1 mark)**
8. State **three** measures that should be put in place in a computer laboratory to safeguard users' health. **(3 marks)**
9. State **three** ways in which barcode readers may be used in schools. **(3 marks)**
10. State **three** advantage of flat panel monitors over cathode ray tube monitors as used in computers. **(3 marks)**
11. State **three** possible reasons for the extinction of daisy wheel printers in the market. **(3 marks)**

12. A law firm prefers to use hard Copy output over soft Copy output when handling documents for legal matters. State **two** reasons for this preference **(2 marks)**

13. Describe **two** characteristics of parallel cables **(2 Marks)**

Section B: 40 Marks: Answer any Four Questions

14. a) Define the operating system (1 mark)

b) State any **five** functions of the operating system (5 marks)

c) Write the following acronyms in full (3 marks)
i) IRQ

ii) WIMP

iii) GUI

d) State **six** factors to consider when choosing an operating system (6 marks)

15.a) Define the term internet (1 mark)

b) State **four** requirements needed for internet access (4 marks)

c) State any **three** services provided by the internet (3 marks)

d) List **four** advantages of the internet (4 marks)

e) State **three** precautions that your school can implement in order to restrict computer studies students from accessing inappropriate content on the internet (3 marks)

16. a) Define the following terms as used with data security: **(4 marks)**

i) Confidentiality

ii) Integrity

iii) Data Security

iv) Computer virus

b) State any **five** symptoms of a computer infected with a virus **(5 marks)**

c) Hacking is a computer crime associated with breaking into a computer system through cracking passwords to access information for purposes of financial gains or blackmail. Discuss any other **three** computer crimes. **(6 marks)**

17. a) What are input devices as used in computer systems? **(1 mark)**

b) State **three** instances with **reason** where the use of a scanners is given a higher priority than Keyboards as a method of data entry. **(6 marks)**

c) State any **three** factors to consider when selecting an input device. **(3 marks)**

d) State the meaning of the following phrases as used with computer systems: **(2 marks)**
i) 'Plug and Play'

ii) 'GIGO'

e) List an input device appropriate for each of the following tasks: **(3 marks)**
i) A botanist researcher wants to upload a picture of a new plant species into her laptop;

ii) An engineer wants to upload her hard copy house plan into the computer;

iii) A musician wants to record his audio music into the computer;

18. a) State **one** clear distinction between a power cable and interface cable (2 marks)

b) Differentiate between parallel and serial interface cables (3 marks)

c) USB cables are the most popular interfaces with small computers today.

i) Write in full what the acronym USB stands for; (1 mark)

ii) State **three** advantages of USB interface over PS/2 interface. (3 marks)

iii) State any **two** application areas of USB cables which makes them more popular than other cables. (2 marks)

d) State **four** safety precautions that should be observed before setting up computer hardware installation and maintenance activity. (4 marks)