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MARCH 2020

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with COSTA	SUBJECT CODE NUMBER 0596	PAPER NUMBER 2
GENERAL CERTIFICATE OF EDUCATION AND INTERMEDIATE TECHNICAL AND VOCATIONAL EDUCATION REGIONAL MOCK EXAMINATION	SUBJECT TITLE INFORMATION AND COMMUNICATION TECHNOLOGY	
ORDINARY LEVEL	DATE Wednesday 18 th March 2020 AFTERNOON	

Time Allowed: TWO hours
INSTRUCTIONS TO CANDIDATES

Mobile phones are **NOT ALLOWED** in the examination room.

- ❖ Answer any five questions
- ❖ All questions carry 20 marks each. For your guidance, the approximate mark for each part of a question is indicated in the brackets
- ❖ You are reminded to the necessity for good English and orderly presentation in your answers.
- ❖ In calculations, you are advised to show all the steps in your working, giving your answer at each stage.
- ❖ Calculators are **NOT** allowed

1. (a) With the aid of a Block diagram, describe a computer and how it functions. (4 marks)
- b) Write the following abbreviations in full and explain them.
- i) EBCDIC (2 marks)
- ii) EDVAC (2 marks)
- iii) MSDOS (2 marks)
- (b) What is firmware? (2 marks)
- (c) Describe the uses of these utility software with appropriate examples
- i) Antivirus (3 marks)
- ii) Data Compression (3 marks)
- (d) State one advantage and one disadvantage of social networks (2 marks)
- Total = (20 marks)**

2. (a) (i) John wishes to install software in his new laptop. Assist him to understand the functioning of software by giving the difference between system software and application software. (4 marks)
- (ii) With an example explain how Word Processors are useful (3 marks)
- (b) Differentiate between the following
- i) Wired Connection and Wireless Connection (2 marks)
- ii) Full Duplex and Half Duplex (2 marks)
- iii) Hexadecimal numbers and Binary numbers (2 marks)
- (c) Explain the following file formats and how each is used.
- (i) JPG
- (ii) EXE
- (iii) MP4 (3 marks)
- (d) How are computers assisting in the following sectors?
- (i) Education.
- (ii) Business (4 marks).
- Total = (20 marks)**

3.	(a)	In tabular form differentiate between impact and non-impact printers	(4 marks)
	(b)	Do the following calculations and conversions	
	i)	3GB to MB	(2 marks)
	ii)	1110001 ₂ to a Decimal	(3 marks)
(c)	i)	What is a network Topology?	(2 marks)
	ii)	Describe the following network topologies using diagrams where needed. Bus and star topologies	(2 marks)
(b)		Define the information Processing Cycle and state the activities involved.	(5 marks)
(c)		Give the filename extensions of the following:	(2 marks)
		File source	File Name Extension
		Microsoft Access	
		Microsoft Word	

Total = (20 marks)

4. (a) Differentiate between a Directory and a Sub Directory (2 marks)
- i) What is a file? (2 marks)
- ii) How can you copy a file from a hard Disk to a flash within windows (4 marks)
- (c) Define the following
- i) Intranet (2 marks)
- ii) Extranet (2 marks)
- iii) Bandwidth (2 marks)
- (d) i) Write down four common components of user interface with WIMP (4 marks)
- ii) Write down the full meaning of WYSIWYG (2 marks)
- Total = (20 marks)**

5. (a) Differentiate between Primary and Secondary storage devices and give two examples of each. (6 marks)
- (b) Explain with examples the following
- (i) Offline storage and online storage (4 marks)
- (ii) Heading and Header. (4 marks)
- (iii) Absolute cell address and relative cell address (4 marks)
- (c) Give two types of softcopy output. (2 marks)
- Total = (20 marks)**

6. (a)
- (i) How many worksheets are found in a default workbook for excel 2007? (2 marks)
- (ii) Write down the function that would calculate the total and average from cell F2 to cell F15 respectively. (2 marks)
- (b) Explain the following terms as used in data protection laws
- (i) Data warehouse (2 marks)
- (ii) Data subject (2 marks)
- (c) What is the meaning of the following as used in ICT? (2 marks)
- (i) Online learning (2 marks)
- (ii) Telecommuting (2 marks)
- (d) Write down two major disadvantages of smart phones. (2 marks)
- (e) State the various computer generations and explain their unique characteristics (4 marks)
- Total = (20 marks)**

7. (a) i) What is ergonomics? (2 marks)
- ii) Describe three things you would do in an office with respect to ergonomics (6 marks)
- (b) Give the differences between the following
- (i) Web browser and Search engine (2 marks)
- (ii) Uploading and Downloading (2 marks)
- (iii) Webpage and website (2 marks)
- (c) State and explain two advantages of computer viruses to programmers. (4 marks)
- (d) What is artificial intelligence? (2 marks)
- Total = (20 marks)**

THE END