INSTRUCTIONS TO CANDIDATES:
(a) Write your name and Index number in the spaces provided.
(b) Sign and write the date of examination in the spaces provided.
(c) Answer ALL questions in the spaces provided.

FOR EXAMINER’S USE ONLY

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SECTION A (40 MARKS)

Answer all questions in this section

1. State **two** characteristics of microcomputers. (2mks)

2. State the functions of the following keyboard key combinations:
   (a) CTRL + ESC: ..............................................................
   (b) ALT + F4: ..............................................................
   (c) CTRL + ALT + DEL: ................................................

3. Explain **two** ways through which data loss can be prevented on magnetic media especially hard disk. (2mks)

4. Explain **portability** with regard to software and hardware factors to consider when selecting a computer. (2mks)

5. (a) Explain each of the following formatting features in Microsoft Word: (2mks)
   (i) Drop Cap: ..............................................................
   (ii) Subscript: ..............................................................
   (b) State any **two** paragraph formatting features in Microsoft Word. (2mks)

6. List any **three** internet connectivity requirements. (3mks)

7. (a) State and explain **one key** control measure against computer viruses. (2mks)
(b) State two control measures against an unauthorized access. (2mks)

8. (a) Use place value method to convert 25\textsubscript{10} into its binary equivalent. (1mk)

(b) Using two’s complements work out 9\textsubscript{10} – 11\textsubscript{10} giving your answer in binary. (2mks)

9. Describe Data processing cycle. (3mks)

10. Explain each of the following programming terms. (2mks)

(a) Source code

(b) Translator

11. (a) Outline two purposes of computer networks. (2mks)

(b) State one limitation of computer networks. (1mk)

12. List three career opportunities in ICT. (3mks)

13. State two ways in which computers are used in law enforcement. (2mks)

14. Outline two effects of ICT on employment. (2mks)
15. State and explain the function of two special purpose memories. (2mks)

SECTION B. (60 MARKS)

Answer question 16 and any other three questions

16. Using both a flowchart and pseudo code, create an algorithm for a program to be used to enter two numbers x and y. The program should display Quotient: x/y if the value of y is NOT zero, otherwise display message error division by zero.

(a) Pseudo code (7mks)

(b) Flowchart (8mks)
17 (a) (i) Outline two uses of folders. (2mks)

(ii) Name any two types of files available in a computer. (2mks)

(b) Explain each of the following disk management terms: (4mks)

(i) Formatting

(ii) Defragmentation

(c) Outline the procedure for:

(i) Creating a folder on the Desktop. (3mks)

(ii) Copying a file from My Documents to the Desktop. (4mks)

18 (a) Define each of the following Data Communication terms: (4mks)

(i) Attenuation:

(ii) Simplex:

(iii) Bandwidth:

(iv) Signal modulation:

(v) Date signal:
(b) Describe the following Network Topologies.

(i) Star (3½ mks)

(ii) Bus (3½ mks)

(c) List three types of computer networks. (3mks)

19 (a) State and explain two fact finding methods. (4mks)

(b) Describe ‘system implementation’ with regard to system development life cycle. (5mks)
(c) State and explain any **two** types of system documentation. (2mks)

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20 (a) Show the procedure for creating a Table in Microsoft Word. (4mks)

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(b) How do you delete a row in an existing Table? (3mks)

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(c) Show the procedure for merging cells when using Microsoft Word. (3mks)

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(d) How do you place a picture in an existing Microsoft Word document? (5mks)

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