

PAN AFRICA CHRISTIAN UNIVERSITY

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: CICT0111

CAMPUS: ROYSAMBU

COURSE TITLE: INTRODUCTION TO COMPUTERS AND OPERATING SYSTEM

EXAM DATE: 5TH AUGUST 2024

TIME: 11:00 AM – 2:00 PM

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other THREE questions in Section **B**.
- Write only your **student number** on the answer booklet provided.
- Nonprogrammable calculators permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

SECTION ONE: (COMPULSORY)**10 MARKS****QUESTION ONE**

- a. Define the term Computer. [1 Marks]
- b. CPU is often called the brain of the computer. Explain [1 Mark]
- c. Discuss the contribution of the CPU to the overall system speed. [2 Marks]
- d. Discuss the following terms [6 Marks]:
 - i. Processor Speed
 - ii. Primary memory
 - iii. Secondary memory

SECTION TWO: (ANSWER ANY THREE (3) QUESTIONS)**30 MARKS****QUESTION TWO.**

- a. Describe one popular operating system that you know. [1 Mark]
- b. Illustrate how you would access the BIOS during computer's startup. [2 Marks]
- c. Explain the purpose of cooling systems in a computer. [2 Marks]
- d. Discuss how computer cooling systems contribute to system stability. [2 Marks]
- e. State and explain three file attributes [3 Marks]

QUESTION THREE

- a. Explain the function of a digitizer in computers. [2 Marks]
- b. Compare and contrast between Optical Mark Reader and Optical Character Reader. [4 marks]
- c. The two file systems used in Windows are FAT and NTFS. Explain two differences between the two and state why one is preferred over the other. [4 Marks]

QUESTION FOUR.

- a. Explain why Tree topology is more preferred than the other topologies? [4 Marks]
- b. Discuss at least two functions of Internetwork? [2 Mark]
- c. Explain how the Internetwork is deployed and implemented. [4 Marks]

QUESTION FIVE.

- a. Computer networks are classified based on certain factors. Briefly describe three factors on which Computer Networks are classified [6 Marks]
- b. Outline the two functions of a computer motherboard. [4 Marks]

QUESTION SIX.

- a. With the aid of a block diagram, describe the components of a computer. [4 Marks]
- b. Two of the methods used for file access in Windows are Direct Access and Indexed Sequential Access. Explain three differences between the two access methods discuss the situations where one is preferred over the other. [6 Marks]

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