



NATIONAL OPEN UNIVERSITY OF NIGERIA
91 CADASTRAL ZONE NNAMDI AZIKWE EXPRESSWAY
JABI, ABUJA
Faculty of Science
Department of Computer Science

COURSE CODE: CIT 711
2½Hours

TIME ALLOWED:

COURSE TITLE: Computer Fundamentals
CREDIT UNIT: 3

COURSE

INSTRUCTION: Answer any **five (5)** questions. EACH carries 14marks in total.

QUESTIONS

- 1a. Development in technology has brought about distinctions in computer, which is why it is important to classify them. Mention the classification of computer. (4marks)
- 1b. Computer memory system can be considered to comprise of three (3) categories of memories, list and briefly describe these categories. (10marks)
- 2a. CD-ROM is very good for distributing information to users, list three main advantages, and two disadvantages of the device (5 marks)
- 2b. Describe magnetic disk as a storage media. (8marks)
- 2c. what are serial interfaces used for? (1mark)

- 3a. Your computer is defective of memory, hanging at intervals and slowness, in what ways can you increase the memory speed?
(8marks)
- 3b. Compare and contrast RAM and ROM
(6marks)
- 4a. Briefly explain these categories of languages
- I. Machine language (6marks)
 - II. Assembly language (6marks)
- 4b. what do you understand by the term 'system call'?
(2marks)
- 5a. Mention the layers of the OSI reference model.
(7marks)
- 5b. State the function (s) of each layer represented above
(7marks)
- 6a. Define switching in terms of data communication
(2marks)
- 6b. List and briefly explain the three, switching techniques available
(12marks)
- 7a. Explain the following terms;
- i. Operating software (2marks)
 - ii. Language Translator
(2marks)
- 7b. Define cryptography and cryptanalysis
(4marks)
- 7c. Enumerate the basic steps involved in the act of cryptanalysis
(6marks)