



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION

CIT611 Computer Fundamentals (3 CR)

Time Allowed: 2½ hrs

Instruction: Answer any FIVE questions

- 1a) The computer memory system can be considered to consist of three groups of memories. List and briefly describe these three groups (10 marks)
- b) Enumerate the two ways of using multiplexing. (2 marks)
- c) State the two major qualities of vector computers (2 marks)

- 2a) In the context of data communication/transmission, what do you understand by 'Switching'? (1 mark)
- b) List and describe the three switching technique commonly employed in data communication. (13 marks)

- 3a) Define Cryptography (*2½ marks*)
- b) What do you understand by Cryptanalysis? (*2½ marks*)
- c) Enumerate the basic steps involved in the art of Cryptanalysis and state what each step requires. (9 marks)

- 4a) In the context of computer programming, define the following: (10 marks)

- i) Variable ii) Functions iii) Data type iv) Array
- v) Subroutine

- b) What are the main advantages of multiprogramming? (4 marks)

- 5a) What do you understand by 'WAN'? (3 marks)
- b) Briefly describe the two types of WAN (6 ½ mark)
- c) Write short note on Software security? (4½ marks)

- 6a) Compare and contrast RAM and ROM. (8 marks)
- b) What is the importance of read mostly memories? (2 marks)

c) State the essential difference(s) between Spooling and Buffering. (4 marks)

7a) What is a system call? (3 marks)

b) Write short notes on Physical Security (*6 marks*)

c) List the important aspects to be considered while designing a network (*4 marks*)