



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JANUARY/FEBRUARY 2013 EXAMINATION

Course Code: CIT711 **Time:** 2½ hrs
Course Title: Computer Fundamentals **Course Credit Unit:**
3

Instruction: Answer any FIVE questions. Each question carries
14 marks

- 1a) Briefly discuss the following memory types) 9 marks
(i) RAM (ii) ROM (iii) PROM (iv) EPROM
- b) Compare and contrast the parallel and serial interface) 5marks
- 2a) Write short notes on the following storage devices: (9½ marks)
(i) Magnetic Disk (ii) Magnetic Tape (iii) CD-ROM
- b) compare the storage devices in (2a) above based on the following parameters: (4½ marks)
i) storage capacity
ii) access mode
iii) access time performance of storage
iv) physical nature
- 3a) Differentiate between the CRT and LCD display) 6 marks
- b) Compare and contrast the laser and Dot matrix printers) 6 marks
- c) What is the advantage of using an array?) 2 marks
- 4a) Briefly describe the following concepts (12 marks)
(i) Pipelining (ii) Vector Processing (iii) Parallel Processing
- b) Give two functions of a looping statement in a programming language?) 2 marks
- 5a) Write briefly on the following:) 9 marks
(i) Local Area Networks
(ii) Metropolitan Area Networks
(iii) Wide Area Networks
- b) give the difference(s) between a subroutine and a function?) 5 marks
- 6a) List the difference(s) between network operating systems and distributed operating systems) 7½ marks

- b) Describe the following:) 4 marks
(i) MODEM (ii) Full Duplex
- c) In the context of data transmission, define Cryptography (**2½ marks**)
- 6a) With the aid of a diagram, outline the layers of the OSI reference model
)7 marks
- b) State the function(s) of each layer of the model) 7 marks