



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: CIT381
COURSE TITLE: File Processing and Management

Time: 2 hrs **Course Credit Unit:** 2
Instruction: Attempt any four (4) questions. Each question carries 17½ marks

1 a. Explain, in writing, what you understand by "a path name" (5 marks)

b. Write briefly on the following file operations.

(1½ mark each = 7½ marks)

- i) Creating a File
- ii) Opening a File
- iii) Closing a File
- iv) Writing a File
- v) Reading a File

c. List two (2) types of pathname (5 marks)

- i) Absolute Path name
- ii) Relative Path name

2 a) What types of file extensions will the following contain:

File Type	Extension
A movie in a Video CD	
A word processed file	
A file in a Musical CD	

A Scanned image	
A picture taken with a digital camera	
An Excel file	

(1 mark each)

b. What is the full meaning of the following acronyms?

S/n	Acronym	Meaning
i	CBIS	
ii	CPU	
iii	RAM	
iv	ROM	
v	FAT	
vi	DVD	

(1 mark each)

c. What do you understand by blocking of records? (5½ marks)

3 a. What is file management system? (5½ marks)

b. Write briefly on the following:

(i) Disk quotas (3 marks)

(ii) Volume (3 marks)

c. List three (3) objectives of file management system (6 marks: 2 marks each for any three)

4 a. what are backups? (3½marks)

b. Outline two (2) types of backups you know (4 marks)

c. Explain, in writing, what you understand by user authentication (5 marks)

d. How can user authentication be implemented? (5 marks)

5. a) List and explain the Logical Components of a file. (5½marks)
- b) Outline and explain, in writing, any three (3) types of file you know (6 marks)
- c) List three (3) File Organisation Criteria (6 marks: 2 marks each for any three)
6. a. Differentiate between the following with regards to files operations
- (i) Truncating and deleting (1½ marks)
 - (ii) Writing and appending (1½ mark)
 - (iii) Reading and repositioning (1½ mark)
 - (iv) Creating and opening (1½ marks)
 - (v) Saving and exiting (1½ marks)
- b. List and explain three (3) operations that are to be performed on a directory.
(2 marks each for any three = 6 marks)
- c. List two (2) methods of improving file system performance. (4 marks)