NATIONAL OPEN UNVERSITY OF NIGERIA

SCHOOL OF SCIENCE AND TECHNOLOGY

OCTOBER/NOVEMBER 2016 EXAMINATION

Course Code: CIT381 *Time:* 2 hrs

Course Title: File Processing and Management

Course Credit Unit: 2

Instruction: Attempt any four (4) questions.

1 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 a. What types of file extensions will the following contain:

(i) A movie in a Video CD

(ii) A word processed file

(iii) A file in a Musical CD

(iv) A Scanned image

(v) A picture taken with a digital camera.

(vi) An Excel file

(1 mark each)

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

(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 each)

(ii)Volume (3 marks each)

c. List three (3) objectives of *file management system* (6 marks)

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

b. Write briefly on the five (5) types of operations that can be performed on a file. (1½ marks each = 7½ marks)

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

5 a. Differentiate between the following with regards to files operations

(i) Truncating and deleting (1½ marks)
(ii) Writing and appending (1½ marks)
(iii) Reading and repositioning (1½ marks)
(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. (6 marks)

c. List two (2) methods of improving file system performance. (4 marks)

6 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)