



**NATIONAL OPEN UNIVERSITY OF NIGERIA, PLOT 91, CADASTRAL ZONE,
NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA**

COURSE CODE: CIT381

COURSE TITLE: File Processing and Management

EXAMINATION 2021_2₄₅₆₇₈

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer Question One (1) and any other THREE (3) Questions

QUESTION ONE (25 MARKS) COMPULSORY

- 1 (a) Outline and describe three file organization methods (3 marks)
- (b) Explain the term “user authentication” and how can it be implemented? (3 marks)
- (c) Describe Access Method (2 marks)
- d. Explain the term “File Organization” and mention three (3) criteria for chosen it (5marks)
- e. Outline and discuss briefly the various access rights that can be granted to a file user. (3 marks)
- f. What is a brute –force approach? (2 marks)
- g. Outline two schemes that can be used in free space fragmentation. (2 marks)
- h. Why the need for High-level – Language? Identify three (3) High level languages (5 marks)

QUESTION 2

- (a) Define File Management System (3marks)
- (b) Outline and explain three (3) objectives of File Management System (6 marks)
- (c) List and explain three (3) different operations supported by a file management system. (6 marks)

QUESTION 3

(a) Write short notes on the following:

- (i) Truncating a file
 - (ii) Deleting a file
 - (iii) Renaming a file
- (2 marks each)

(b) Outline and explain three causes of data loss and the solution to each: (6 marks)

(c) Outline and explain three elements of a file (3 marks)

QUESTION 4

(a) Briefly outline the different ways through which a file could be protected? (6 marks)

(b) Describe Sorting Algorithm?(3marks) And Identify and briefly write on any three (3) types of sorting (6 marks)

QUESTION 5

(a) Explain the basic difference between informed and uninformed search algorithm. (4 marks)

(b) Classify the following into Uninform and Informed search:

- (i) Constraint satisfaction search
- (ii) Tree Search
- (iii) Graph search
- (iv) Adversarial search
- (v) List search

(5 marks)

(c) Explain the following file attributes:

- (i) File name
 - (ii) File Type
 - (iii) Time, Date and Process Identification
- (2 marks each)

