



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
OCTOBER 2019 EXAMINATION

COURSE CODE: CIT 381

COURSE TITLE: FILE PROCESSING AND MANAGEMENT

COURSE CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS

Question 1

- (a). Explain free space management (2marks)
- (b). Clearly explain the concept of a field (3marks)
- (c). List and explain any five attributes a file could possess (5marks)
- (d). Differentiate between pre-allocation and dynamic allocation (4marks)
- (e). List and state the application of any 6 filename extension of textual files (6marks)
- (f). Highlight any five (5) file management system functions (5marks)

Question 2

- (a). Give two (2) reasons why managing space is so important. (3marks)
- (b). Discuss n the techniques used in managing space (6marks)
- (c). Explain why a file system has to be reliable (2marks)
- (d). Describe two (2) techniques for improving system performance. (4marks)

Question 3

- (a). List and explain any three validation criteria (6marks)
- (b). What is the difference between data validity and data accuracy? (4marks)
- (c). Describe the validation rule and list six data validation methods (5marks)

Question 4

- (a). What is a file manager? (2 marks)
- (b). Mention any six (6) operations of a file manager . (3 marks)
- (c). Explain the graphical file manager and highlight its four (4) features. (6marks)
- (d) List and explain the function of any four (4) toolbar buttons that enables one work with files and folders. (4marks)

Question 5

- (a). Analyse the term Sorting Algorithm and list any eight (8) of its popular types (6marks)
- (b). Differentiate between Uninformed Search and Informed Search Algorithm (4marks)
- (c). State the functions of the following Fortran I/O statements: OPEN, CLOSE, READ, WRITE and REWIND (5marks)