



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**  
**FACULTY OF SCIENCES**  
**APRIL/MAY, 2019 EXAMINATIONS**

**COURSE CODE: CIT 381**

**COURSE TITLE: File Processing and Management**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

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

- 1a. What is file organisation? (*4 marks*)
- b. List FOUR (4) different file organisation methods. (*4 marks*)
- c. In what situation will a particular file access method be useful? (*4 marks*)
- d. What do you understand by blocking of records? (*5 marks*)
- e. Enumerate two (2) different types of record blocking techniques (*2 marks*)
- f. Draw the diagram of the different techniques. (*6 marks*)

**(Total = 25 marks)**

- 2(a) Discuss exhaustively different types of operations that a user can perform on directories. (*6 marks*)
  - b. Differentiate between Truncating and deleting with regards to files operations (*6 marks*)
  - c. Outline the various access rights that can be granted to a file user. (*3 marks*)

**(Total = 15 marks)**

- 3a. Discuss exhaustively different types of operations that a user can perform on directories. (*6 marks*)
- b. Differentiate between Truncating and Deleting with regards to files operations (*6 marks*)
- c. Outline the various access rights that can be granted to a file user. (*3 marks*)

**(Total = 15 marks)**

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4(a) What is intrusion and how can it be detected? (**6 marks**)

b. State some of the design principles for securing a computing environment

**(5 marks)**

c. What is user authentication? (**4 marks**)

**(Total = 15 marks)**

4a. What is intrusion and how can it be detected? (**6 marks**)

b. State some of the design principles for securing a computing environment

**(5 marks)**

c. What is user authentication? (**4 marks**)

**(Total = 15 marks)**

5(a). Write short notes on the following:

i. Viruses (**2 marks**)

ii. Worms (**2 marks**)

iii. Denial of service (**2 marks**)

iv. Trojan horse (**2 marks**)

v. Trap door (**2 marks**)

b. What are the different ways through which a file could be protected? (**5 marks**)

**(Total = 15 marks)**