

**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)***

1. Differentiate between Truncating and deleting with regards to files operations ***(6 marks)***
2. 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)***

 ***(Total = 15 marks)***

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

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

 ***(5 marks)***

1. 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:

1. Viruses ***(2 marks)***
2. Worms ***(2 marks)***
3. Denial of service ***(2 marks)***
4. Trojan horse ***(2 marks)***
5. Trap door ***(2 marks)***

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

***(Total = 15 marks)***