2021_1 EXAMINATION 1234

COURSE CODE: CIT381

COURSE TITLE: File Processing and Management

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) Briefly outline three different ways through which a file could be protected? (3 marks)

(b) Identify three strategies that can be used in free space fragmentation (3 marks)

(c) Outline and explain three causes of data loss and the solution to each: (5 marks)

(d) What is the main difference between a worm and a virus? (4 marks)

(e) What is intrusion and how can it be detected? (4 marks)

(f) Describe a file manager (2 marks)

(g) Compare and contrast Password and biometrics (4 marks)

QUESTION 2

(a) Create a file containing six (6) records of students using four (4) essential fields (6 marks)

(b) Explain the following with examples:
   (i) File Naming
   (ii) File extensions
   (iii) File Attributes
        (6 marks)
(c) List three (3) symbols that cannot be used to identify a file (3 marks)

QUESTION 3

(a) Explain the term "File Organization" (2 marks)

(b) Mention four (4) criteria for chosen it. (4 marks)

(c) Explain three (3) different operations supported by a file management system. (9 marks)

QUESTION 4

 (a) Define Record blocking (1 mark)

(ii)   Outline and explain three (3) methods of record blocking (6 marks)

(b) Write briefly on the four (4) types of operation that can be performed on a file (8 marks)

QUESTION 5

(a) Describe Data Corruption (5 marks)

(b) List three (3) input/output statements of FORTRAN programming language and their functions (6 marks)

(c) Mention four operations of a file manager (4 marks)