



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

Course Code: CIT421

Course Title: NET-CENTRIC COMPUTING

Credit: 3 units

Time allowed: 3 Hours

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

1a. Define the term 'client'. **(3marks)**

1b) In the context of communication, define mobile computing. **(3Marks)**

1c. Briefly explain the benefits of distributed systems. **(11Marks)**

1c. Describe the various Architectural Models of Distributed Computing. **(8Marks)**

TOTAL = 25 MARKS

2a. Define the term 'Email forensic'. **(1mark)**

2b. State the exact interest of a Message-passing System? **(7Marks)**

2c. Outline any seven (7) purpose (s) for rendering a program evaluation. **(7Marks)**

TOTAL = 15 MARKS

3ai. Explain the concept of computer forensics. **(4Marks)**

3aii. State the characteristics of digital forensics. **(5marks)**

3b. Explain the concept of distributed systems with examples of its application areas. **(6Marks)**

TOTAL = 15 MARKS

4a. outline any three (3) risks of distributed systems. **(3Marks)**

4b. Enumerate three (3) advantages and disadvantages each of client server computing. **(9Marks)**

4c. Briefly discuss the concept of Client Server category of networks. **(3Marks)**

TOTAL = 15 MARKS

5a. List any six (6) tools/techniques used for securing networks. **(3marks)**

5b. Discuss the tools and techniques stated in question 5a. **(12Marks)**

TOTAL = 15 MARKS

6a. State the common techniques used in email forensic investigation. **(5Marks)**

6b. In no particular order, state any ten (10) of the steps involved in building a web application. **(10Marks)**

TOTAL = 15 MARKS