

NATIONAL OPEN UNIVERSITY OF NIGERIA

Learn at any place at your pace...

Plot 91, Cadastral Zone, University Village, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
2023_1 POP EXAMINATION

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

QUESTION 1

1a. Enumerate and discuss the two (2) most commonly utilized databases in a web application. (6marks)

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

1c. Briefly explain the shortcomings of SQL (3marks)

1d. Describe the various Architectural Models of Distributed Computing.

(8Marks)

1e. State the characteristics of digital forensics. (5marks)

TOTAL = 25MARKS

QUESTION 2

- 2a. Briefly explain the benefits of distributed systems. (11Marks)
- 2b. Explain the concept of computer forensics. (4Marks)

TOTAL = 15MARKS

QUESTION 3

- 3a. Define the term 'client'. (2marks)
- 3b. Discuss the significance of developing the frontend of a web app. **(4marks)**

- 3c. What exactly is the interest of a Message-passing System? (7Marks)
- 3d. State the primary roles of the backend in web application. (2marks)

TOTAL = 15MARKS

QUESTION 4

- 4a. Enumerate any five (5) purpose (s) for rendering a program evaluation. (5Marks)
- 4b. Define the term 'Email forensic'. (1mark)
- 4c. Discuss three (3) advantages and disadvantages each of client server computing. (9Marks)

TOTAL = 15MARKS

QUESTION 5

- 5a. concisely discuss the term 'Parallel Systems'. (5marks)
- 5b. In no particular order, state any ten (10) of the steps involved in building a web application. (5Marks)
- 5c. Explain the concept of distributed systems with examples of its application areas. (5Marks)

TOTAL = 15MARKS

QUESTION 6

- 6a. Briefly discuss the concept of Client Server category of networks. (3Marks)
- 6b. Itemise any six (6) tools/techniques used for securing networks. (3marks)
- 6c. Discuss the tools and techniques stated in question 6b. (6Marks)
- 6d. Outline any three (3) common techniques used in email forensic investigation. (3Marks)

TOTAL = 15MARKS