

Q5

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NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

FACULTY OF SCIENCES

Created during the 2022_2 Semester

Course Code:	CIT832
Course Title:	Introduction To Operating Systems and Networking Management
Credit Unit:	2
Time Allowed:	2 hours
Instruction:	Answer Question 1 and any other two (2) questions

(30 marks) Q1 a. Why is it necessary to study operating systems? (4 marks) b. The seven layers of the OSI reference model can be divided into tow (8 marks) categories: upper and lower layers. Differentiate between these two c. Four major components make up the development environment for (12 marks) most GUIs. Identify and briefly explain them. d. A system administrator's work can be divided into various specialties in a (6 marks) large organization, with each specialty being handled by a different person or group. Discuss three of these specialties. (20 marks) Q2 a. Describe the Gestalt Principle (4 marks) b. Explain the concept of multiprogramming and briefly explain two (8 marks) categories of multiprogramming systems. c. List three ways of grouping displayed information to ensure high (6 marks) readability and highlighted relationships between the information. (2 marks) d. Explain two common failure modes in distributed systems (20 marks) Q3 a. Describe the term virtual machine and discuss three of its benefits (8 marks) b. List two benefits provided by Window 2000 domains (4 marks) **Explain the following Windows Domain concepts** (8 marks) (i) Objects (ii) Organizational Unit (iii) **Trees** (iv) **Forest** (20 marks) Q4 a. Briefly describe multiprocessor operating systems. (4 marks) b. Discuss two advantages and disadvantages of mesh topology. (5 marks) c. List and explain the three goals of computer security: (6 marks) d. Distingusih between Local Area Networks (LANs) and Wide Area (5 marks) Networks (WANs)

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(20 marks)

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a. Explain the following by stating their features and functions:

(10 marks)

- i. File Transfer Protocol (FTP)
- ii. Network Filing System (NFS)
- iii. Remote Terminal Emulation (TELNET)
- iv. User Datagram Protocol (UDP)
- v. Internet Control Message Protocol (ICMP)
- b. Mention four drawback of LINUX Operating Systems

(4 marks)

c. What do the following Linux file manipulation commands do?

(6 marks)

- i. TAIL
- ii. CMP
- iii. DIFF