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NATIONAL OPEN UNIVERSITY OF NIGERIA

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

FACULTY OF SCIENCES

APRIL 2019 EXAMINATION

Course Code: CIT832

Course Title: Operating Systems and Networking

Course Credit Unit: 2 Time Allowed: 2Hours

Instruction: Answer Question 1 and any other three (3) questions

Question 1:

a. State and give the requirements of a secure distributed system

3marks

- b. Differentiate between Network Operating System and Distributed Operating System?

 4marks
- c. What are the major advantages of Distributed operating system? 2marks
- d. Briefly explain Multiprocessor Operating Systems 2marks
- e. List any four components used to connect two or more networks 2marks
- f. Differentiate between Repeaters and Bridges, stating their feature and purpose 4marks
- g. What is TFTP? (2 marks)
- h. What protocol is used in TFTP for data transport? (2 marks)
- i. How is TFTP session initiated? (2 marks)
- j. How is integrity maintained using TFTP? (2 marks each) (25 marks)

Question 2:

- a.) Compare multiprocessing and multiprogramming? (6 marks)
- b.) List three protocols that are included in the TCP/IP suite of protocols. 3marks
- **c.)** Describe the following
 - o ICMP (2 marks)
 - RIP and(2 marks)

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ARP/RARP? (2 marks)

Question 3

- a What are the three main purposes of an operating system? (7 marks)
- b. Explain the main difficulty a programmer must overcome in writing an operating system for a real-time environment? (3 marks)
- c. To build a robust distributed system, you must know what kinds of failures that can occur.
 - i. List three possible types of failure in a distributed system. (3 marks)
 - ii. Specify which of those in your list are applicable to a centralized system. (2 marks)

Question 4:

- a. Name the system folders that are created in Windows 2000 to store program and data files; . (3 marks)
- b. In Windows 2000 Directories: Describe the following:
 - My Document,
 - o My Computer and

My Network Places? (6 marks)

c. What is a Forest?d. What is Auditing in Windows 2000?e. What specific events can be Auditing in Windows 2000?2 marks2 marks

Question 5:

- a. what is the function of each the following Linux command library and special characters: cal, who, ^u, ^c, AD, Is -a (6marks)
- b. what are the contents of the following Linux Directories: /dev, /etc, /lib (3 marks)
- c. What is the result of the following Linux File Manipulation Commands including their various options if any? (6 marks)