



**NATIONAL OPEN UNIVERSITY OF NIGERIA,
91 CADASTRAL ZONES, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA.
FACULTY OF SCIENCES
JULY 2017 EXAMINATION.**

Course Code: CIT 723 **Time:** 3 hours
Course Title: Operating System Design and Programming
Course Credit Unit: 3
Instruction: Answer Question one (1) and other any four (4) questions.

QUESTION

1. (a) What is the Purpose of a network? **(2 marks)**
(b) Outline the steps involved in successfully delivering information between devices on a network. **(7 marks)**
(c) State any four benefits of networking. **(4 marks)**
(b) State the models for configuring Network Load Balancing and discuss any two. **(9 marks)**
2. (a) What are network protocols? **(2 marks)**
(b) Describe Network Load Balancing **(5 marks)**
(c) State any four advantages and one disadvantage of Linux operating system. **(5 marks)**
3. Write short notes on the following:
(a) Routing Information Protocol (RIP) **(4 marks)**
(b) Service Advertising Protocol (SAP) **(4 marks)**
(c) Internet Application Protocols **(4 marks)**
4. List four qualities of operating systems and discuss any three of the listed qualities. **(12 marks)**
5. Write short notes on the following describing and stating their functions:
i) Internet Protocol (IP) **(6 marks)**
ii) Transmission control protocol (TCP). **(6 marks)**
6. Write short notes on the following describing and stating advantages and disadvantages of each:

(a) Peer-to-Peer Network
(b) State the advantages and disadvantages of Peer-to-peer network
(c) Server-Based Network