NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SEPTEMBER/OCTOBER 2015 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: **CIT 723**

COURSE TITLE: **OPERATING SYSTEM DESIGN AND PROGRAMMING**

Instruction: *Answer any five questions each question carries 14 marks*
Time: 2½ hours

1. (a)   What is the Purpose of a network? *(2½ marks)*
   (b)   Outline the steps involved in successfully delivering information between devices on a network. *(7½ marks)*
   (c)   State any four benefits of networking. *(4 marks)*

2. Write short notes on the following describing and stating advantages and disadvantages of each:
   (a) Peer-to-Peer Network *(7 marks)*
   (b) Server-Based Network *(7 marks)*

3. List four qualities of operating systems and discuss any three of the listed qualities.*(14 marks)*

4. Write short notes on the following:
   (a) Routing Information Protocol (RIP)*(5 marks)*
   (b) Service Advertising Protocol (SAP) *(5 marks)*
   (c) Internet Application Protocols*(4 marks)*

5. (a)   State any four advantages and one disadvantage of Linux operating system. *(5 marks)*
   (b)   Enumerate the six basic rules, you need to remember to be ableto understand thesyntax of any Linux*(9 marks)*

6. (a)   Describe Network Load Balancing*(5 marks)*
   (b)   State the models for configuring Network Load Balancing and discuss any two. *(9 marks)*

7. (a)   What are network protocols? *(2 marks)*

   (b)   Write short notes on the following describing and stating their functions:
   i) Internet Protocol (IP) *(6 marks)*
   ii)   Transmission control protocol (TCP). *(6 marks)*