NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JUNE/JULY EXAMINATION

COURSE CODE: CIT854
COURSE TITLE: Network Programming and Design
TIME ALLOWED: $2^1/_2$ hrs
INSTRUCTION: Answer any other FIVE questions. Each
           question carries 14 marks

1. (a) Give the guidelines for switch port allocation
(6 marks)
    (b) State any eight of the considerations for planning a cabling system

(4 marks)

2. (a) In a tabular form outline the different classes of
     Network and their respective IP address
     (6 marks)
    (b) Enumerate any four of the criteria for network
addressing   (8 marks)

3. (a) Briefly discuss the benefits of subnets
(6 marks)
    (b)   Discuss the 64-bit Architectures
(6 marks)
    (c) List any two commonly used media for digital signals
(2 marks)

4. (a) State any five advantages offered by networking of
     computers over a single system
     (5marks)
    (b) What is the disadvantage of networking?
(1 mark)

(c) List any four of the common naming abbreviations
   and state their   meaning for domain connection
   (8 marks)

5. (a) Name and describe any four problems of Network
Devices.   (8 marks)
 (b) Write short notes on Twisted Pair Cable
(6 marks)

6. (a) Enumerate any five functions of Network Operating
System (NOS)

(10 marks)
   (b) Briefly explain the term "Network Topology".
(4 marks)

7. Write short notes on the OSI reference model listing its
   layers in the correct sequence and stating the function(s)
   of each layer   (14 marks)