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 311

COURSE TITLE: COMPUT ER NETWORKS

INST RUCTION: *Answer anyfive questions out of Seven*
Time: 3HOURS

1.
   a) B riefly describe the follo wing network types:
      i.   **Local Area Network**
      ii. **MetropolitanArea Network**
      iii. **Wide Area Network**
   b) D istinguish between **point-to-point** and **broadca t** networks.

2.
   a) U sing sketch es describe three different types of n etwork**topologies**.
   b) B riefly describe the OSI Reference m odel listing all its layers i n their prop er order.

3.
   a) Write a brief note on each of the foll owing: i.
         Tran smission Control Protoc l (TCP) ii.
         User Datagram Protocol (UD P)
   b) B riefly explain what trans mission medium is, listing three examples.

4.
   a) E xplain clearly what is m eant by multiplexing, de cribing two techniques used to i mplement it.
   b) B riefly explain what Media Access Control is describing two t ypes of protocols used fo r i t.

5.
   a) D istinguish between **adaptive** and **non-adaptive** routing algorithms. b)
   Write brief notes on each of the following routin algorithms:
         i. Shor test Path routing ii.
         Flooing

6.
   a) B riefly explain the functi on of a Dom ain Name System (DNS) in a TCP/IP N etwork. b) Write a brief note on each of the foll owing:
         i. Switc h
         ii. Bridg e
         iii. Hub iv.
         Router

7.
   a) B riefly explain what an A TM Network is listing fo r of its benefits.
b) Write a brief note on each of the following types of communication using examples to illustrate:
      i. Baseband
      ii. broadband