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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**

**MARCH/APRIL 2016 EXAMINATION**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**COURSE CODE: CIT311**

**COURSE TITLE: COMPUTER NETWORKS**

**Time: 3 HOURS**

**INSTRUCTION: *Answer any five questions out of Seven***

1.

* 1. Distinguish between point-to-point and broadcast networks.
  2. Write short notes on the following types of network:
     1. Wide Area Network WAN
     2. Metropolitan Area Network MAN
     3. Local Area Network LAN
  3. Using sketches describe three types of network topologies.
  4. Briefly describe the layers of the OSI Reference model in their proper order.
  5. Distinguish between Transmission Control Protocol (TCP) and User Datagram Protocol (UDP)
  6. Briefly explain what transmission medium is giving three examples.
  7. Explain clearly what is meant by multiplexing, describing two techniques used to implement it.
  8. Briefly describe Media Access Control stating two types of protocols used for it.
  9. Distinguish between adaptive and non-adaptive routing algorithms.
  10. Write brief notes on each of the following routing algorithms:
      1. Shortest Path routing
      2. Flooding
  11. Briefly explain the function of a Domain Name System (DNS) in a TCP/IP Network.
  12. Write a brief note on each of the following:
      1. Switch
      2. Bridge
      3. Hub
      4. Router
  13. Briefly explain what an ATM Network is listing four of its benefits.
  14. Distinguish between baseband and broadband communication using examples to illustrate.