NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF MANAGEMENT SCIENCES
MAY/JUNE 2012 EXAMINATION

MBF 744/844   Computer Networks and Internet
Times Allowed: 2:00 Hours

Instruction: a) Attempt any Three (3) questions of your choice. Each question carries 23.3 marks.
b) Present your answers legibly and logically using relevant examples

Questions:
1. The primary function of Transmission Control Protocol (TCP) is to turn an unreliable network into a reliable network that is free from lost and duplication of packets. Discuss 23.3 marks

2. (a) Explain precisely the causes and possible solutions to network congestion in telecommunication and networking. 9 marks
   (b) Evaluate critically basic difference between Centralized Routing and Distributed Routing. 14.3 marks

3.   (a) Explain the term 'Local Area Network 8.*3 marks*
      (b) Discuss three (3) applications areas of a local area network. 15 marks

4.   (a) Despite error prevention mechanism, errors still occur in data transfer over a
           communication line. Discuss three (3) basic error detection techniques. 12 marks
           (b) Explain three (3) factors considered in designing data transmission systems.
           11.3 marks

5.   Explain the following in details:
       a) The World Wide Web. 8 marks
       b) Electronic Mail (e-mail) 8 marks
       c) Listserv. 7.3 marks