BCA 2nd Semester Examination

June-2014
Introduction to Computer Network
Subject Code: CAL-108

Time Allowed: 03 hours. Maximum Marks: 100

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: Attempt five questions in total. Question No.1 is compulsory and remaining four questions from Section A and B (Two questions from each section)

Q.1 (5x4=20)
(a) Differentiate Star and Mesh topology in detail.
(b) Explain TOS bits in TCP.
(c) Write a short note on private network.
(d) Write a short note on IP address.

SECTION-A

Q.2 What is TCP protocol? What are the services provided by TCP? Explain in detail. (20)

Q.3.
(a) What is UDP protocol? What are the uses of UDP protocol? Explain its features. (10)
(b) What is IP address? Also discuss about IP Address Classes. (10)

Q.4
(a) Explain LAN, WAN and MAN networks in detail? (10)
(b) What do you mean by ethernet? Explain the working with the help of examples. (10)

SECTION-B

Q.5
(a) What do you mean by networking? Discuss different Network Interconnecting Devices in detail. (10)
(b) Differentiate between infrastructural and Adhoc networks. (10)

Q.6
(a) What is a network? Discuss the various network topologies along with their advantages and disadvantages. Which topology need maximum amount of cabling? (10)
(b) Explain following with diagram and working: (10)
   i. NIC
   ii. MODEM

Q.7
(a) What do you mean by cryptography? Explain its various types in brief. (15)
(b) Write short note on wireless network. (5)