

2014
B.E. (Electronics and Communication Engineering)
Fourth Semester
EC-405: Computer Networks

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section. Use of scientific calculator is allowed.

x-x-x

1. Attempt the following:-

- (a) What is meant by a link and node? (2)
- (b) What do you understand by DNS? (2)
- (c) What is DHCP? (2)
- (d) Explain the Flooding. (2)
- (e) Will Bluetooth and Wireless LAN interfere with each other? (2)

Section- A

- 2(a) Discuss about the design issues of computer networks. (5)
- (b) Identify the layers in OSI reference model and illustrate their functions. (5)
- 3(a) What is the need of Framing? Explain character stuffing and bit stuffing for framing. (5)
- (b) Explain different ALOHA protocols and compare their performance. (5)
- 4 Explain briefly about the Persistent and Nonpersistent CSMA protocols. (10)

Section-B

- 5(a) Explain the concept to include the role of IP addresses in forwarding. (5)
- (b) What is Internet multicasting? Explain in details. (5)
- 6(a) Explain the Real Time Transport Protocol. (5)
- (b) Explain ATM AAL Layer Protocol. (5)
- 7 Compare IP4 and IP6 headers and explain how IP6 address is represented? (10)

x-x-x