

FACULTY OF ENGINEERING

B.E. 3/4 (IT) II Semester (Suppl.) Examination, December 2012

Subject: Computer Networks

Time: 3 Hours

Max.Marks: 75

Note : Answer all questions from Part A. Answer any Five questions from Part B.

PART – A (25 Marks)

1. Write the functions of the Network layer. (2)
2. What is the use of MAC sublayer? (3)
3. Draw the structure of IP header. (3)
4. What is polling? (2)
5. What for blue tooth is used? (2)
6. What is count to infinity problem? (3)
7. What is the need of sliding window protocol? (2)
8. Write about internet multicasting. (3)
9. List functions of transport and network layer. (3)
10. What is DNS? (2)

PART – B (50 Marks)

- 11.(a) Compare OSI and TCP/IP reference model. (5)
(b) Explain TCP/IP reference model. (5)
- 12.(a) Explain IP address. (5)
(b) Draw UDP header diagram and explain each field. (5)
- 13.(a) Write any one multiple access protocol. (5)
(b) Explain distance vector routing algorithm and its drawback. (5)
- 14.(a) Discuss any one congestion prevention technique. (5)
(b) Explain about leaky bucket algorithm. (5)
- 15.(a) Write about SNMP and Network Management. (5)
(b) Explain about elementary sockets. (5)
16. Explain e-mail security. (10)
17. Write short notes on:
(a) Tunneling (5)
(b) Public key algorithm (5)