

FACULTY OF INFORMATICS

B.E. 3/4 (IT) II Semester (Old) Examination, April / May 2013

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. Give the UDP header format. (2)
2. What is Tunneling? Explain. (3)
3. What is the purpose of DNS? (3)
4. What is out of band data? (2)
5. Differentiate between static and dynamic web documents. (2)
6. Differentiate between TCP/IP and OSI models. (3)
7. List the Quality of Service parameters. Briefly explain methods for achieving good Quality of Service. (3)
8. Differentiate between authentication and authorization. (2)
9. List down few types and subtypes of MIME format used by the E-mail system. (2)
10. Differentiate between symmetric key and public key algorithms. (3)

PART – B (50 Marks)

- 11.(a) With a suitable example, explain the link state routing algorithm. (8)
(b) What is count to infinity problem? (2)
12. Explain the gateway routing protocols. (10)
- 13.(a) What is internet super server? List down all the fields of the configuration file it uses. Explain the steps executed by the super server. (7)
(b) What are elementary sockets? Explain briefly. (3)
- 14.(a) Explain e-mail architectures. (5)
(b) Explain VOIP protocols in detail. (5)
- 15.(a) Explain DES algorithm in detail. (8)
(b) What are certificates? (2)
- 16.(a) Differentiate between IPv4 and IPv6. (5)
(b) Explain the token bucket algorithm. (5)
17. Write short notes on the following:
(a) Mobile IP (5)
(b) Digital signatures. (5)