

FACULTY OF ENGINEERING

B.E. 3/4 (CSE) II – Semester (New) (Main) 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. What are the functions of data link layer? | 3 |
| 2. List elementary TCP socket system calls. | 2 |
| 3. Define IP protocol. | 2 |
| 4. What is Tunneling? | 3 |
| 5. Define a Daemon process. | 2 |
| 6. Explain the need for multiprotocol router. | 2 |
| 7. What are the services of Transport layer? | 2 |
| 8. Write short notes on E-mail security. | 3 |
| 9. Differentiate between virtual circuits and datagram subnets. | 3 |
| 10. What is ARP & RARP. | 3 |

PART – B (50 Marks)

- | | |
|---|----|
| 11. Draw and explain the OSI reference model with a neat diagram. | 10 |
| 12. What is routing? Explain any one static and dynamic routing algorithms. | 10 |
| 13. Explain in detail about TCP header with neat diagram. | 10 |
| 14. List and explain about elementary sockets and advanced sockets. | 10 |
| 15.a) Explain about E-mail architecture and services. | 5 |
| b) Differentiate between static and dynamic web documents. | 5 |
| 16. Explain about OSPF in detail. | 10 |
| 17. Write short notes on : | |
| a) WWW | 3 |
| b) HTTP | 3 |
| c) DNS | 4 |

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PART – A (25 Marks)

- | | | |
|----|---|---|
| 1 | Define Computer Network. | 2 |
| 2 | What is Routing? | 2 |
| 3 | What is cryptography? | 2 |
| 4 | Define out of band data. | 2 |
| 5 | What is a Socket? | 2 |
| 6 | Define Fragmentation. | 3 |
| 7 | What are name servers? | 3 |
| 8 | Distinguish between TCP/IP and OSI reference model. | 3 |
| 9 | What is a digital signature? | 3 |
| 10 | What are the services of Network layer? | 3 |

PART – B (50 Marks)

- | | | |
|----|---|---|
| 11 | Draw and explain TCP/IP reference model. | |
| 12 | Explain about link state routing algorithm with an example. | |
| 13 | Explain about OSPF and BGP in detail. | |
| 14 | Explain about TCP and UDP header formats. | |
| 15 | Write about secure socket layer in web security. | |
| 16 | List and explain about advanced socket system calls. | |
| 17 | Write short notes on : | |
| | a) Tunnelling | 4 |
| | b) VOIP | 3 |
| | c) POP | 3 |
