

Code No: RR320503

RR

Set No. 2

III B.Tech II Semester Examinations, December 2010

COMPUTER NETWORKS

Common to IT, E.COMP.E, E.CONT.E, CSE, CSSE

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. (a) Write any four reasons for using layered protocols.
(b) Compare and contrast OSI and TCP/IP models. [8+8]
2. (a) What is SMTP? Briefly discuss about Email gateways.
(b) Write short notes on pretty good privacy. [8+8]
3. (a) What is tunneling? Can tunneling be used in datagram subnets? If so, how?
(b) Briefly discuss ICMP. [8+8]
4. (a) Explain about, Routing for Mobile Hosts.
(b) What is Broadcasting? With an example, explain about Reverse path forwarding. [8+8]
5. (a) Draw and explain the structure of the ATM Adaptation layer.
(b) Briefly discuss about TCP timer management. [8+8]
6. (a) Mentioning the advantages and disadvantages, explain sliding window protocol using Go back-n and using selective repeat.
(b) Draw, and explain about HDLC protocol. [8+8]
7. (a) Explain the operation of source Routing Bridges.
(b) Measurements of a slotted ALOHA channel with an infinite number of users show that 10 percent of the slots are idle.
 - i. What is the channel load, G?
 - ii. What is the throughput?
 - iii. Is the channel under loaded or overloaded? [8+8]
8. (a) Explain Berkeley socket primitives for TCP.
(b) Define the following terms.
 - i. Transport service user
 - ii. Transport service provider
- (c) Suppose that the clock-driven scheme for generating initial sequence numbers is used with a 15-bit wide clock counter. The clock ticks once every 100msec, and the maximum packet lifetime is 60sec. How often need resynchronization take place

Code No: RR320503

RR

Set No. 2

- i. in the worst case?
- ii. when the data consumes 240 sequence numbers/min? [6+4+6]

FIRSTRANKER

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Code No: RR320503

RR

Set No. 4

- (b) What is Broadcasting? With an example, explain about Reverse path forwarding. [8+8]

FIRSTRANKER

Code No: RR320503

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Code No: RR320503

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FIRSTRANKER

Code No: RR320503

RR

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- ii. What is the throughput?
- iii. Is the channel under loaded or overloaded?

[8+8]

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