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CS/IT-7101

B. E. (Seventh Semester) EXAMINATION, June, 2007

(Common for CS & IT Engg.)

NETWORK MANAGEMENT

(Elective – I)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Explain the need of multiple protocols. 10
(b) Differentiate between multiplexing and de-multiplexing. 10
2. (a) Explain the TCP three-way handshaking operations and the purpose of each of its packets. 10
(b) Explain a drawback of forwarding packets with source routing. 5
(c) Why do HTTP, FTP, SMTP, POP3 and IMAP run on top of TCP rather than on UDP ? 5
3. (a) Discuss the role of the following entry in access list of router : 10
(i) access-list 101 deny icmp any any 8.
(ii) access-list 101 permit 192.168.11.12.0.0.0.255 any 8.

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- (iii) access-list 101 deny icmp any any 13.
(iv) access-list 101 permit 192.168.11.12.0.0.0.255 any 13.
(v) access-list 101 deny icmp any 17.
- (b) Discuss the inventory management. 10
4. Explain the following : 10 each
(i) Network File System (NFS).
(ii) Routing Information Protocol (RIP).
5. (a) Describe Network monitoring principle in brief. 10
(b) Explain the function of LAN monitor. 10
6. (a) Why don't Internet routers execute TOP or UDP protocols ? 6
(b) How does fast retransmission improve TCP's overall utilization of network resources ? 6
(c) Remote Procedure Call support systems provide various tools, including a runtime library. What does this library contain ? 8
7. (a) Explain open shortest path first protocol (OSPF). 10
(b) What does UDP provide in addition to those services contained in IP ? 5
(c) Differentiate between physical network management and logical network management. 5
8. Write short notes on any two of the following : 10 each
(i) IP V6 (Version 6)
(ii) Telnet Protocol
(iii) Network topology service
(iv) TCP segment format

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