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Roll No.

CS/IT-7101

B. E. (Seventh Semester) EXAMINATION, June, 2010

(Common for CS & IT Engg.)

NETWORK MANAGEMENT

(Elective-I)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt all questions. Internal choice is provided. All questions carry equal marks.

1. (a) Differentiate between multiplexing and demultiplexing. 10
(b) What is protocol layering ? Discuss different layers of TCP/IP protocol suite. 10

Or

2. (a) What is the requirement of multiple protocols ? Give the stack of various protocols used in TCP/IP. 10
(b) Explain the architecture of internet. What various characteristics are required for internet ? 10
3. (a) Compare IPV4 and IPV6. 10
(b) Explain the frame format of UDP. What is pseudoheader ? 10

P. T. O.

Or

4. (a) Discuss two types of ICMP messages. What is the utility of ICMP ? 10
- (b) Explain the following terms : 10
- (i) Encapsulation
 - (ii) Virtual network
 - (iii) Fragmentation
 - (iv) Time to time
5. (a) Explain the following terms of TCP segment format : 10
- (i) URG
 - (ii) Window size
 - (iii) HLEN
 - (iv) ISN
 - (v) FIN
- (b) Explain SMTP. What are message transfer agents and user agents ? Explain the working of SMTP. 10

Or

6. Write short notes on any *two* of the following :
- (a) OSPF
 - (b) FTP
 - (c) GGP
 - (d) RPC
7. (a) Explain the functional groupings of network management. Also give the functional flowchart. 10
- (b) Explain LAN monitors. 10

Or

8. Write short notes on the following : 20

- (a) Line monitors and communication monitors
- (b) Accounting packages

9. (a) Explain fault management. What are the types of fault management ? 10

(b) Explain security management. 10

Or

10. (a) What are network topology services ? 5

(b) What is trouble ticket administration ? 5

(c) Explain the functions of configuration management. 10