CS/IT-802

B. E (Eighth Semester) EXAMINATION, June, 2010 (Common for CS & IT Engg. Branch)

WEB ENGINEERING

Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35

Note: Attempt all questions. All questions carry equal marks.

1. Explain the following terms: 20

- (i) MTV (ii) Encapsulation (iii) Demultiplexing
- (iv) Port numbers (v) Subnet addressing, subnet mask

Or

- 2.(a) Given the following IP address, find class, Net ID and range of addresses and broadcast address: 10
- (i) 132-21-0-0
- (ii) 220-34-76-0
- (b) Explain fragmentation field, flags,- fragmentation offset field of IPv 4 header field. What are their functions? 10
- 3. (a) Explain the frame format of APR. What is the function of ARP and RARP? 10
 - (b) Explain ICMP timestamp request and reply. 10

Or

- 4. (a) What are the basic commands in ICMP? How are they categorize d? 10
- (b) Explain the following terms: 10
- (i) Proxy ARP (ii) RARP server design
- 5. (a) Explain BGP in detail with example. 10
- (b) How trace route is performed? What is the necessity of trace route? 10

Or

- 6. (a) Which layer protocol is UDP? What is the main function of UDP? Explain UDP header frame format. 10
- (b) Differentiate between adaptive routing and non-adaptive routing. 5
- (c) What is Pseudoheader? 5
- 7. (a) Explain the frame format oi TCP. Discuss various fields in it. 10
- (b) Compare FTP and TFTP. 10

Or

- 8. (a) Explain the connection establishment and termination procedure of TCP. 10
- (b) What is state transition diagram? 5
- (c) What is BOOTP ? 5
- 9. (a) Explain Telnet. 10
- (b) How NFS is used? What are the various protocols of application layer of TCP/IP? 10

Ot

- 10. (a) What, is SNMP? How MIB is used in SNMP? 10
- (b) What are the various ports used for FTP? What commands are used for FTP? Give some example. 5
- (c) What is user agent and message transfer agent in SMTP ? 5