

M.C.A. DEGREE EXAMINATIONS: NOV / DEC 2010

Fifth Semester

MASTER OF COMPUTER APPLICATIONS

P07CAE08: TCP/IP Protocol Suite

Time: Three Hours**Maximum Marks: 100****Answer All Questions: -
PART A (10 x 2 = 20 Marks)**

1. List the advantages of frame relay over x.25.
2. State the usage of Loopback Address.
3. Which fields of the IP header change from router to router?
4. What is the purpose of ICMP Protocol?
5. Mention the services of TCP.
6. List the applications for which UDP is most suitable.
7. Differentiate Flat and Hierarchical Name Space.
8. List the modes of TELNET.
9. Distinguish the control and data connections of FDP.
10. What is MIME?

PART B (5 x 16 = 80 Marks)

11. a) Explain the ISO-OSI reference Network Architecture. (OR)
 b) Discuss the following LAN technologies.
 - (i) Ethernet (8)
 - (ii) Token Ring (8)
12. a) Describe IP Design with respect to the following.
 - (i) Header-adding module (4)
 - (ii) Processing Module (4)
 - (iii) Routing & MTU Module (4)
 - (iv) Fragmentation and Reassembly (4)

(OR)

 b) Write notes on the following protocols.
 - (i) ARP & RARP (8)
 - (ii) ICMP (4)
 - (iii) IGMP (4)
13. a) Explain in detail the UDP design and operation. (OR)
 b) Discuss in detail the TCP operation and design.
14. a) Write notes on the following:
 - (i) Domain Name System (10)
 - (ii) DHCP (6)

(OR)

 b) Describe the TELNET and Rlogin
15. a) Discuss the functioning of the following protocols
 - (i) FTP (8)
 - (ii) SMTP (8)

(OR)

 b) Explain in detail the following protocols
 - (i) SNMP (8)
 - (ii) HTTP (8)