

22/12/11

S.E (I.T) sem IV

AG 2nd Hall (11) 13

Networking Technology for Digital  
Devices

MP-4412

Con. 6788-11.

(3 Hours)

[ Total Marks : 100

**N.B. :** (1) Question No.1 is **compulsory**.

(2) Attempt any **four** questions from remaining **six** questions.

Q.1.

- (a) What are the goals of a Distributed system? (5)  
(b) Explain five function of Datalink layer. (10)  
(c) Explain working of Remote procedure call. (5)

Q.2.

- (a) What is CORBA? Explain its architecture and various services provided by it. (10)  
(b) Explain TCP header. (10)  
or  
Explain TCP timers. (10)

Q.3.

- (a) State at least three major differences between RIP and OSPF, also explain various problem in RIP. (10)  
(b) Explain difference between  
(1) TCP and UDP. (10)  
(2) IPv4 and IPv6. (10)

Q.4.

- (a) Explain Following with example:  
(1) IP address (2) Port no. (3) URL (4) MAC address (5) Socket. (10)  
(b) Explain working of various internetworking devices. (10)

Q.5.

- (a) Explain Subnetting and give example of subnetting of class C network (10)  
(b) Explain CRC and Checksum. (10)

Q.6.

- (a) Explain ALHO, slotted ALOHA and CSMA/CD (15)  
(b) Why we need sliding window protocol? (5)

Q.7.

- 2) Write short not on: (20)  
(1) DNS  
(2) M/M/1 Queue  
(3) Circuit switch v/s Packet Switch.