2019

TCP/IP-DESIGN AND IMPLEMENTATION

Paper : CS 815
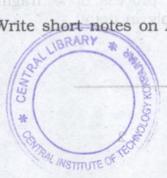
Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer **any five** questions.

1. (a) How data transfer takes place between HTTP server and client ? Explain in brief.   10

    (b) What is the purpose of DNS ? Why is it necessary ? How resolver works ?
                                                          10

2. (a) Write short notes on ARP and RARP.
                                                          10

(b) Given the IP address 172.16.22.0, what class of IP address is it? And given netmask of 255.255.0.0, how many subnets are available? 10

3. Explain the header format for *three* major protocols in the TCP/IP protocol suite.

20

4. With a neat sketch, explain TCP state transition diagram. 20

5. (a) Specify the TCP connection establishment process. 10

(b) State the role of ICMP. 10

6. (a) Compare BOOTP and DHCP. 10

(b) Write short notes on Flow control and Congestion control. 10

7. Illustrate the process of IP fragmentation and reassembly in detail. 20

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53 (CS 815) TCID/G   2   100