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CS-69

BACHELOR OF COMPUTER APPLICATIONS (PRE - REVISED)

Term-End Examination June, 2014

00200CS-69: TCP/IP PROGRAMMING Time: 2 hours Maximum Marks: 60 Note: Question No. 1 is compulsory. Answer any three questions from the rest. What is IP address? Explain format of a 1. (a) 6 typical IP address. Define DNS. Explain the characteristics of 6 (b) DNS. (c) explain the Draw and connection 6 establishment and termination process using 3 - way handshaking in TCP. Explain, why does lost acknowledgement (d) 4 not necessarily force the retransmission of TCP segment. Explain congestion control and quality of (e) 4 services in context of TCP. What is IP routing? Explain, how Indirect (f) 4 routing is different from Direct routing. Describe the purpose and importance of the 2. 10 following header fields of IP and TCP: (a) Time To Live (b) Flags (c) Header checksum (d) Type of services

(e) Window size 3. (a) Explain the similarities between the 4 following: HTTP and SMTP (i) (ii) HTTP and FTP Explain the importance of TCP in the 6 (b) TCP/IP stack. Also, explain TCP segment encapsulation with the help of a diagram. 4. (a) Write any four differences between 4 connection - oriented and connection-less services. (b) Explain the four classes of IP address and 6 give one example address for each class. 5. Explain the following terms: 10 (a) TCP/IP (b) Client - Server (c) Full - Duplex (d) Stream data (e) **TELNET**

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