Question-01: What is computer network? What are the applications of computer networks? Classify network by transmission technology and by size and then briefly describe each type. 10 Marks CSE-2012 (Engg) CSE-2012

Question: differentiate between Client-Server model and Peer to Peer model of Computer Network. 4 Marks CSE-2012

Question: What is Topology? Briefly describe different types of topology with its advantages and disadvantages. 6 Marks CSE-2012 \*\*\* CSE-2012 (Engg)

Question: Differentiate between Wired and Wireless Networks. 3 Marks CSE-2012

Question: What is OSI Reference Model? Why it is called layered architecture? 3 Marks CSE-2012

Question: Briefly describe the functionalities of each OSI layer and also show the diagram of how data is encapsulated by each layer at the sender and dencapsulated at the receiver end. 7 Marks CSE-2012

Question: What is TCP/IP? Differentiate between OSI model and TCP/IP model. 4 Marks CSE-2012

Question: What is meant by connection less and connection oriented protocol? Briefly describe three way handshaking technique of TCP/IP. 6 Marks CSE-2012

Question: Describe Flag bytes with byte stuffing technique for framing? **5 Marks CSE-2012 CSE-2011**

Question: What is Error control? Why it is necessary? 4 Marks CSE-2012

Question: Describe Hamming Coding technique for error detection and correction. 7 Marks CSE-2012

Question: Describe the lost frame detection and resend process of Go-Back-N ARQ. 4 Marks CSE-2012

Question: Differentiate between subnetting and super netting. Briefly describe the concept of class less IP addressing. 6 Marks CSE-2012

Question-01: Differentiating between circuit switching and packet switching. 4 Marks CSE-2012

Question-02: Briefly describe different types of channel access methods. 6 Marks CSE-2012

Question-03: What is Ethernet? Briefly describe technical specification of 10 Base T, 100 Base T and Gigabit Ethernet standard. 6 Marks CSE-2012

Question-04: What is Collision? How collision is managed in the transmission channel. 4 Marks CSE-2012

Question-05: What are the functions of ARP and RARP? How ARP works? 5 Marks CSE-2012

Question-06: What are meant by direct packet delivery and packet forwarding? Give example. 4 Marks CSE-2012

Question-07: Briefly describe a simplified forwarding module for the class full IP addresses with subnetting. 5 Marks CSE-2012

Question-08: Differentiate among hub, switch and router. 6 Marks CSE-2012

Question-09: What is MIME? Why it is used? 4 Marks CSE-2012

Question-10: Describe the working principle of SMTP protocol. 4 Marks CSE-2012

Question-11: Draw the architecture of a browser. 4 Marks CSE-2012

Question-12: What do you mean by static document, dynamic document and active document? 4 Marks CSE-2012

Question-13: Write about TELNET and Remote-Login. 4 Marks CSE-2012

Question: Define Feedback based and rate based Flow control. **3 Marks CSE-2011 CSE-2007**

Question: What is Router? What is Routing Algorithm? Why it is necessary? 1+2 Marks CSE-2011 CSE-2007

Question: Define adaptive and non-adaptive routing algorithm. Compare between Adaptive and Non-Adaptive routing algorithm. 6 Marks CSE-2012 CSE-2009 CSE-2007 CSE-2006 CSE-2005

Question: Explain different fields in a routing table. 5 Marks CSE-2008

Question: What is Count to infinity problem? Explain with an example. How can we solve this problem? Is your solution 100% correct? If not why? 7 Marks CSE-2011 CSE-2009 CSE-2006 CSE-2005

Question: Describe the routing mechanism of Ad Hoc network. 5 Marks CSE-2012

Question: Explain how a routing table of a router is updated using distance vector routing algorithm. Give an example with appropriate figure. 5 Marks CSE-2007

Question: Describe the basic Routing Implementation for Connectionless and Connection-Oriented Service with example. 8 Marks CSE-2010

Question: Describe the Shortest Path Routing Algorithm with example. 6 Marks CSE-2010 CSE-2007 CSE-2005

Question: Describe Dijkstra’s Shortest path routing Algorithm with an example. 6 Marks CSE-2012 CSE-2004

Question: Describe Multicast Routing Algorithm. 5 Marks CSE-2012

Question: What are the parameters to determine the Quality of Service (QoS)? Mention some Techniques for achieving good quality of service. 3 Marks

Question: Distinguish between Internet and Intranet. 3 Marks CSE-2012 (Engg)