SRI KRISHNA INSTITUTE OF TECHNOLOGY

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#29, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bangalore- 560090

Department of Computer Science and Engineering

Subject Name: Computer Networks

SEM : 5

Faculty : Latha A

Subject Code: 21CS52

DIV : A & B

Module-5 Question Bank

SL#	Question	CO	Level	Marks
1.	Explain Principles of Network Applications.	CO2	L2	8
2.	Discuss about Network Application Architecture with diagram.	CO2	L2	6
3.	Explain TCP services and UDP services.	CO2	L2	6
4.	Explain POP3 and mail access protocols.	CO2	L2	5
5.	Explain SMTP with diagram.	CO2	L2	5
6.	Explain Electronic mail in internet with neat diagram.	CO2	L3	14
7.	Explain Web Caching.Write a note on Cookie.	CO2	L3	12
8.	Explain GET condition.	CO2	L2	3
9.	Explain HTTP message format with diagram.	CO2	L3	10
10.	Explain HTTP request-response behaviour.	CO2	L3	12
11.	Explain Application layer protocols.	CO2	L3	15
12.	What is the web and HTTP with example.	CO2	L3	10
13.	Explain HTTP Persistent connection and non-persistent connection.	CO2	L2	12
14.	Explain various techniques to achieve good quality of service.	CO2	L2	10
15.	Write a note on IMAP.	CO2	L2	10

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Module-4 Question Bank

SL#	Question	CO	Level	Marks
1.	Explain the elements of transport layer in detail	CO2	L2	15
2.	Explain the functions and service primitives of the transport layer. With neat diagram discuss about transport entity	CO2	L2	10
3.	Explain in brief, TCP connection Management process with appropriate diagrams and service primitives	CO2	L2	10
4.	Explain in brief about RPC	CO2	L2	5
5.	Explain in brief connection establishment with appropriate diagrams by considering different real time problems	CO2	L2	8
6.	Compare TCP and UDP. Explain TCP & UDP segment structure with a neat diagram.	CO2	L3	16
7.	Compare between connection oriented and connectionless service	CO2	L2	6
8.	Explain about service primitives used in Berkeley Sockets	CO2	L2	8
9.	With neat diagram explain about how transport layer entities address the communicating process.	CO2	L2	10
10.	Explain the role of postmapper and inetd.	CO2	L2	8
11.	Mention about different buffer mechanism schemes used in flow control at the transport layer. Explain each of it in detail	CO2	L3	8
12.	Explain about different combinations used in client server strategy for crash recovery.	CO2	L2	12
13.	Mention the effects of congestion. Explain about different criteria considered to avoid congestion	CO2	L3	8
14.	What is meant by AIMD? Explain any one technique used to regulate the flow.	CO2	L3	7
15.	What is a TCP Window? Explain about TCP Sliding Window	CO2	L3	6
16.	Explain leaky bucket algorithm with example	CO2	L3	10

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17.	What do you mean by two army problem? Explain in detail how it is coorelated in disconnecting the connection.	CO2	L3	10

Module-3 Question Bank

SL#	Question	CO	Level	Marks
16.	Discuss about the design issue and service of Network Layer provided to transport layer.	CO2	L2	8
17.	With neat diagram explain how network layer transmits the packet in the network	CO2	L2	6
18.	With neat diagram explain about store and forward switching	CO2	L2	6
19.	Explain about virtual circuit switching with neat diagram	CO2	L2	5
20.	Compare discuss about the connectionless and connection oriented service of network layer	CO2	L2	5
21.	Write a ns2 program to Implement transmission of ping messages/trace route over a network topology with node 1,3 as source and 2,4 as destination respectively	CO2	L3	14
22.	What is hierarchical routing? Discuss its advantages and disadvantages. What is the optimal number of hierarchy levels for a subnet with N-numbers of IMPs? What is corresponding number of table entries per IMP?	CO2	L3	12
23.	State the principle of optimality with regards to routing.	CO2	L2	3
24.	Is the path-vector routing algorithm closer to the distance-vector routing algorithm or to the link-state routing algorithm? Explain.	CO2	L3	10
25.	What is adaptive routing? With the help of an example explain flow based routing?	CO2	L3	12
26.	What is the difference between flooding and broadcasting? Explain with neat diagram link state routing algorithm and all issues related to this algorithm	CO2	L3	15
27.	Explain the different shortest path algorithm for routing. What are the matrices used for computing the shortest path?	CO2	L3	10

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28.	What is congestion? How is it caused? What are the factors that contribute to congestion? Describe any one congestion control method with its advantages and disadvantages.	CO2	L2	10
29.	Enlist congestion control open loop and closed loop policies.	CO2	L2	8
30.	Explain following methods used for congestion control. a. preallocation of buffers b. choke packets c. isarithmic congestion control	CO2	L2	12
31.	Explain various techniques to achieve good quality of service.	CO2	L2	10
32.	List the broadcast routing algorithms. Explain any two of them	CO2	L2	10
33.	Explain the intra-AS routing protocol in detail	CO2	L2	10