

## Code No: A0607 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations October/November-2011 HIGH PERFORMANCE TCP/IP NETWORKS (DIGITAL SYSTEMS AND COMPUTER ELECTRONICS) Time: 3hours Max.Marks:60

## Answer any five questions All questions carry equal marks

<ul> <li>2.a) Draw the header format of TCP and describe the usage of each field in it.</li> <li>b) The IP header checksum only verifies the integrity of IP header. Discuss the pros at cons of doing the checksum on the header part versus on the entire packet.</li> <li>c) Identity the range of IPv6 addresses spanned by Class A, Class B and Class C. [12]</li> <li>3.a) Explain the general principles of congestion control.</li> <li>b) Describe how the congestion control will be done in virtual circuit. [12]</li> <li>4. Write short notes on</li> <li>a) Slow start</li> <li>b) Fast retransmission and fast recovery. [12]</li> <li>5.a) Describe briefly about buffer management.</li> <li>b) Compare passive queue management, active queue management and fair que management. Write which management is better. [12]</li> <li>6. Explain the fair queing and weighted fair queing scheduling mechanisms with thelp of relevant example and compare them. [12]</li> <li>7. Write short notes on</li> <li>a) Assured service</li> <li>b) Explain in detail about multi protocol label switching. [12]</li> </ul>	1.a) b)	List the services provided by the TCP/IP and briefly explain about its appl Compare and contrast between TCP/IP and OSI models.	ication. [12]
<ul> <li>b) Describe how the congestion control will be done in virtual circuit. [12]</li> <li>4. Write short notes on <ul> <li>a) Slow start</li> <li>b) Fast retransmission and fast recovery. [12]</li> </ul> </li> <li>5.a) Describe briefly about buffer management.</li> <li>b) Compare passive queue management, active queue management and fair que management. Write which management is better. [12]</li> <li>6. Explain the fair queing and weighted fair queing scheduling mechanisms with thelp of relevant example and compare them. [12]</li> <li>7. Write short notes on <ul> <li>a) Assured service</li> <li>b) Expidiated service. [12]</li> </ul> </li> </ul>	b)	The IP header checksum only verifies the integrity of IP header. Discuss cons of doing the checksum on the header part versus on the entire packet.	ss C.
<ul> <li>a) Slow start</li> <li>b) Fast retransmission and fast recovery. [12]</li> <li>5.a) Describe briefly about buffer management.</li> <li>b) Compare passive queue management, active queue management and fair que management. Write which management is better. [12]</li> <li>6. Explain the fair queing and weighted fair queing scheduling mechanisms with thelp of relevant example and compare them. [12]</li> <li>7. Write short notes on <ul> <li>a) Assured service</li> <li>b) Expldiated service. [12]</li> </ul> </li> </ul>			[12]
<ul> <li>b) Compare passive queue management, active queue management and fair que management. Write which management is better. [12]</li> <li>6. Explain the fair queing and weighted fair queing scheduling mechanisms with thelp of relevant example and compare them. [12]</li> <li>7. Write short notes on Assured service</li> <li>b) Expidiated service. [12]</li> </ul>	a)	Slow start	[12]
<ul> <li>help of relevant example and compare them. [12]</li> <li>7. Write short notes on <ul> <li>a) Assured service</li> <li>b) Expidiated service. [12]</li> </ul> </li> </ul>		Compare passive queue management, active queue management and	
<ul><li>a) Assured service</li><li>b) Expidiated service. [12]</li></ul>	6.		
8. Explain in detail about multi protocol label switching. [12]	a)	Assured service	[12]
	8.	Explain in detail about multi protocol label switching.	[12]

\* \* \* \* \* \*