



	III B.Tech. II Semester Regular/Supplementary Examinations, May/June -201	.4			
	COMPUTER NETWORKS				
(Comm to Electronics and Communication Engineering & Electronics and Comp	outer			
	Engineering)				
Time	e: 3 Hours Max Mar	ks: 75			
	Answer any FIVE Questions All Questions carry equal marks *****				
1.	a) Compare narrow band and broadband ISDN.				
	b) What are various switching techniques? Explain.	[7+8]			
2.	a) List two ways in which the OSI reference model and the TCP/IP reference m the same and also list two ways in which they differ.	odel are			
	b) Explain the four basic network topologies, and cite advantages of each type.	[8+7]			
3.	Explain about sliding window protocols for noisy channels.	[15]			
4.	b) What is congestion? Explain any one of the congestion control techniques.	[5+5+5]			
5.	a) What are some of the advantages and disadvantages are between static routes dynamically configured routes?	s and			
	b) Compare virtual – circuit and Datagram subnets.	[8+7]			
6.	a) Consider the delay of pure ALOHA versus slotted ALOHA at low load whic Less? Explain detail.	h one is			
	b) Sketch the Manchester encoding for the bit stream : 000110101.	[8+7]			
7.	a) Explain IPv4 classful and classless Addressing.b) Compare and contrast the interior gateway and exterior gateway protocols.	[7+8]			
8.	Write short notes on (i) FTP				
	(ii) SNMP				
	(iii) Domain Name Space.	[5+5+5]			

Code No: R32041



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Engineering)				
Time: 3 Hours Max Marks: 7	5			
Answer any FIVE Questions All Questions carry equal marks *****	0			
1. a) Compare the static and dynamic routing algorithms.				
b) Explain Hierarchical routing algorithm. [7+8]				
 2. a) List three advantages and three disadvantages of having international standards for network protocols. [8+7] b) What is the difference between half-duplex and full-duplex transmission models. 				
3. a) Explain Framing, Error control and flow control mechanisms of data link layer.b) Give the frame format of HDLC protocol. [8+7]				
 4. a) Draw the cross-sectional diagrams of the following guided media: (i) Coaxial cable (ii) Fiber optic cable b) Draw the protocol architectural diagram of ATM protocol. [8+7] 				
5. a) Explain about the connection establishment and connection release at transport lay b) Explain TCP header format with neat diagram. [8+7]				
6. a) Describe the difference between subnetting and supernetting .b) List and describe the difference between class A,B, and C Sublaer masks. [7+8]				
7. a) Brief the general principles of congestion control. [7+8b) What is Internetworking? What is the role of network layer in Internetworking?]			
 8. Write short notes on (i) Multi Media. (ii) Electronic mail. (iii) Network security. 	+51			
(iii) Network security. *****]			

Code No: R32041 R10 III B.Tech. II Semester Regular/Supplementary Examinations, May COMPUTER NETWORKS (Comm to Electronics and Communication Engineering & Electronics	
COMPUTER NETWORKS	s and Computer
(Comm to Electronics and Communication Engineering & Electronics	-
Engineering)	Max Marks: 75
Time: 3 Hours Answer any FIVE Questions All Questions carry equal marks *****	
 a) Explain and compare various types of Multiplexing techniques. b) Give the characteristics of guided and unguided media. 	[7+8]
2. a) How do the layers of the internet model correlate to the layers of tb) How are OSI and ISO related to each other?	he OSI model? [7+8]
3. a) Explain how CRC method is used for error detection?b) Illustrate the above with one example.	[8+7]
4. a) List out the services and applications of SCTP. Also compare TCI Protocols.	
b) Explain congestion control mechanisms used in TCP.	[10+5]
5. Explain DES algorithm with neat diagram.	[15]
6. a) Explain about the 802.11 protocol stack with neat diagram.b) Write short note on Bluetooth architecture.	[10+5]
 7. Write short notes on following (i) Shortest path routing. (ii) Flooding. (iii) Distance vector routing. 	[5+5+5]
 8. a) What is congestion? Write general principles of congestion control b) Compare various Internet transport protocols. ***** 	l. [8+7]

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Max Marks: 75

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Time: 3 Hours

Answer any FIVE Questions All Questions carry equal marks *****

- 1. Draw the protocol suite diagram of TCP and compare it against the OSI Model. [15]
- 2. a) Compare and contrast a circuit-switched network and a packet switched networks. b) What is the role of address field in a packet traveling through a virtual-circuit network? c) Compare optical fiber cables with coaxial cables. [5+5+5]
- 3. a) Compare various Internet transport protocols. b) What are the various layers of ATM? Explain. [7+8]
- 4. a) What is internetworking? Explain. b) Discuss the functions of ATM transport protocols. [8+7]
- 5. a) Draw and explain about the 802.11 frame structure. b) Discuss the advantages and disadvantages of credits versus sliding window protocols. [8+7]
- 6. a) What is the primary purpose of the address resolution protocol(ARP). b) Discuss about distance vector routing algorithm.
- 7. a) Explain IPV4 protocol header format. b) Explain why most of the addresses in class A are wasted. Explain why is mediumsize or large-size corporation does not want a block of class C addresses. [8+7]

8. Write a brief note on: Integrated services (i)

- **SNMP**
- (ii) (iii) Network Security.

[5+5+5]

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