Code No: **R32041**   **R10**   Set No. 1

III B.Tech II Semester Supplementary Examinations, November - 2017
COMPUTER NETWORKS
(Common to Electronics and Communication Engineering and Electronics and Computer Engineering)

Time: 3 hours   Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks
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1	a)	Explain TCP/IP protocol suite.	[8M]
	b)	Explain different network topologies.	[7M]
2	a)	Explain unguided transmission media in detail.	[7M]
	b)	What is multiplexing? Explain different types of multiplexing.	[8M]
3	a)	Explain the term sliding window. Also illustrate and explain the operation of selective repeat.	[7M]
	b)	List and explain the services provided by data link layer.	[8M]
4	a)	Discuss MAC frame structure for IEEE 802.3.	[9M]
	b)	Explain different types of wireless LANs.	[6M]
5	a)	Explain the Shortest Path Routing Algorithm with an example.	[6M]
	b)	Explain distance vector routing in-detail and also count to infinity problem to exist in it.	[9M]
6	a)	Give the general principles of various congestion control algorithm.	[8M]
	b)	Explain the role of Network layer in the internet.	[7M]
7	a)	Compare and Contrast the UDP header and the TCP header.	[8M]
	b)	What is TCP? Explain TCP connections management.	[8M]
8	a)	Explain the basic principles of cryptography.	[8M]
	b)	What is e-mail? Briefly discuss about the User Agent.	[7M]

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