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

III B.Tech II Semester Supplementary Examinations, April - 2018
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)	Compare OSI reference model with TCP/IP model.	[8M]
	b)	Explain the functions of session, presentation and application layer in detail.	[7M]
2	a)	With neat sketch explain the principle of Coaxial cables	[8M]
	b)	Explain the comparisons between Narrow band and broad band ISDN.	[7M]
3	a)	Discuss the error detection mechanism in CRC with the help of an example?	[8M]
	b)	What is the significance of Flow control Mechanism? Explain how it is achieved by Sliding window protocol.	[7M]
4	a)	Explain the differences between Persistent and non-persistent CSMA protocols of MAC sub layer	[8M]
	b)	Explain the differences between Simple Bridge and Transparent Bridge	[7M]
5	a)	Compare the Characteristics of Circuit switched networks, Datagram networks and Virtual circuit networks	[8M]
	b)	With neat example explain the Shortest path routing	[7M]
6	a)	Discuss the general Principles of Congestion control Algorithm	[8M]
	b)	Explain the various broadcasting routing algorithms	[7M]
7	a)	Discuss briefly about ATM AAL Layer Protocol	[8M]
	b)	With a neat sketch, explain the UDP header format	[7M]
8	a)	Explain in detail about communication security and authentication with neat example	[8M]
	b)	Describe the architecture of WWW with a neat sketch. What is the significance of static and dynamic web documents? Explain	[7M]

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