Code No: **R31052**   # R10   **Set No. 1**

III B.Tech I Semester Supplementary Examinations, May-2017
COMPUTER NETWORKS
(Common to Computer Science Engineering & Information Technology)

Time: 3 hours   Max. Marks: 75

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

1	a)	Explain in detail about ISO-OSI reference Model.	[8M]
	b)	Explain the architecture of the Internet.	[7M]
2	a)	Explain Circuit Switched Networks and Datagram Networks.	[8M]
	b)	What is multiplexing? Explain in detail WDM and TDM.	[7M]
3	a)	Explain the need of framing in detail in data link layer.	[8M]
	b)	Write short notes on an unrestricted simplex protocol and a stop and wait protocol.	[7M]
4	a)	Explain the sliding window protocol using Go-back-n protocol and using selective repeat.	[8M]
	b)	Give the detailed description of HDLC frame format.	[7M]
5	a)	What is pure ALOHA and slotted ALOHA? Consider the delay of both at low load. Which one is less? Explain your answer.	[8M]
	b)	Explain CSMA protocol.	[7M]
6	a)	Define Ethernet. Explain Fast Ethernet and Standard Ethernet.	[8M]
	b)	Write about the frame format of 802.11.	[7M]
7	a)	What is the difference between GEO, MEO, and LEO satellites?	[8M]
	b)	Explain Bluetooth Protocol Stack.	[7M]
8	a)	What is bridge? How does it function? Explain the usage of spanning tree bridges.	[8M]
	b)	Write a short note on remote bridges.	[7M]

******