

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**

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- 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]

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