Duration : 3 Hrs   **Total Marks : 80**

N.B. : 1. Question No. 1 is Compulsory.
      2. Attempt **any three** questions, from remaining **five** questions.
      3. Figure to the right indicates full marks

Q.1.	A)	What are guided and unguided transmission media.	5
	B)	Compare various network topologies.	5
	C)	Why subnetting is required and how it is done in classful IP addressing.	5
	D)	Explain FTP and the two TCP Connections.	5
Q.2.	A)	Explain TCP/IP model with neat diagram and the functions of each layer.	10
	B)	Explain various Internetworking devices.	10
Q.3.	A)	What is the difference between static and dynamic routing ? Explain Distance Vector Routing with example.	10
	B)	What is framing? Explain various framing techniques.	10
Q.4.	A)	What are Berkley socket primitives? Explain in brief.	10
	B)	What is error detection and correction? Explain CRC with example.	10
Q.5.	A)	What is congestion control ? Explain open loop and closed loop congestion control.	10
	B)	Explain in brief – a) Telnet and SSH. b) TCP timers	10

Q.6.   Write Short Note on (Any four)   20
           (a) TCP segment header

           (b) Bluetooth Architecture

           (c) Aloha and its types

           (d) SNMP

           (e) Design issues for various layers

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