(3 Hours)   [Total Marks: 80]

Note: (1) Question 1 is compulsory
      (2) Solve any three questions out of remaining
      (3) Assume suitable data wherever necessary

Q.1		Solve any four	[20]
	(a)	Explain principle differences between connection less and connection oriented communication.	
	(b)	What is channel allocation problem?	
	(c)	Find the error, if any, in the following IPv4 addresses. (i) 221.24.7.8.20 (ii) 75.45.351.14	
	(d)	Differentiate between TCP and UDP.	
	(e)	Write short note on SMTP.	
Q.2	(a)	Describe OSI reference model with a neat diagram.	[10]
	(b)	Explain different framing methods.	[10]
Q.3	(a)	Explain different types of guided transmission media in detail.	[10]
	(b)	Explain sliding window protocol using selective repeat technique.	[10]
Q.4	(a)	Explain Link State Routing with suitable example.	[10]
	(b)	What is need of DNS and explain how DNS works?	[10]
Q.5	(a)	Explain IPv4 header format in detail.	[10]
	(b)	Explain Three Way Handshake Technique in TCP.	[10]
Q.6	(a)	Explain leaky bucket algorithm and compare it with token bucket algorithm.	[10]
	(b)	Write short notes on: (i) TCP Timers (ii) HTTP	[10]

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