

Time: 3 hours

Max. Marks: 70

Question Paper consists of Part-A and Part-B
Answer ALL the question in Part-A and Part-B

PART-A (10X2 = 20M)

	Marks	CO	BL
1.a) What is a computer network?	2(M)	CO1	BL1
b) Define bandwidth and throughput.	2(M)	CO1	BL1
c) Define framing.	2(M)	CO2	BL1
d) What is checksum?	2(M)	CO2	BL1
e) What is packet switching	2(M)	CO3	BL1
f) Define routing.	2(M)	CO3	BL1
g) Define UDP	2(M)	CO4	BL1
h) What is congestion control?	2(M)	CO4	BL1
i) What is WWW?	2(M)	CO5	BL1
j) Define DNS	2(M)	CO5	BL1

PART-B (5X10 = 50M)**UNIT-I**

2a.	Explain OSI 7-layer model with diagram.	10M	CO1	BL2
(OR)				
3 a)	Explain types of networks with examples	5M	CO1	BL4
b)	Describe transmission impairments.	5M		

UNIT-II

4 a)	Explain error detection techniques.	5M	CO2	BL2
b)	Explain CSMA/CD and CSMA/CA.	5M		
(OR)				
5 a)	Explain multiple access protocols (ALOHA, CSMA, etc.)	10M	CO2	BL2

UNIT-III

6.a)	Describe IPv4 addressing and subnetting.	10M	CO3	BL1
(OR)				
7a.	Compare IPv4 and IPv6.	5M	CO3	BL4
b.	Explain packet switching.	5M		

UNIT-IV				
8 a)	Explain error control mechanisms	5M	CO4	BL2
b)	Explain flow control in TCP.	5M		
(OR)				
9 a)	Explain TCP and UDP .	10M	CO4	BL4

UNIT-V				
10.a)	Explain WWW architecture and HTTP working	10M	CO5	BL2
(OR)				
11a)	What is QoS and its importance?	5M	CO5	BL1 BL4
b)	Explain DNS working.	5M		
