Course Code: 1951221

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### **NSTITUTE OF TECHNOLOGY AND MANAGEMENT**

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

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# III B.Tech I Sem Supply End Examination, December 2022 **Data Communication and Computer Networks**

(IT)
Time: 3 Hours. Max. Marks: 70

- Note: 1. Question paper consists: Part-A and Part-B.
  - 2. In Part A, answer all questions which carries 20 marks.
  - 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

### PART- A

(10\*2 Marks = 20 Marks)

1.	a)	List Different Types of Topologies.	2M	CO1	BL1
	b)	Define Multiplexing	2M	CO1	BL1
	c)	Define Framing	2M	CO2	BL1
	d)	Write a short note on error correction	2M	CO2	BL1
	e)	Define Tunneling	2M	CO3	BL1
	f)	List Uni-Cast Routing Protocols	2M	CO3	BL1
	g)	Define Congestion	2M	CO4	BL1
	h)	Differentiate Between TCP and UDP Protocols	2M	CO4	BL1
	i)	Explain File Transfer Protocol	2M	CO5	BL4
	j)	Explain the Working Mechanism of Electronic Mail	2M	CO5	BL4

#### PART-B

(10\*5 Marks = 50 Marks)

2	a)	Explain ISO/OSI Model with Neat Diagram	5M	CO1	BL4		
	b)	Explain briefly about Transmission modes	5M	CO1	BL4		
		OR					
3	a)	Explain Different Datagram Networks	5M	CO1	BL4		
	b)	Explain briefly about different types of Switching Techniques	5M	CO1	BL4		
4	a)	Explain CRC with example	5M	CO2	BL4		
	b)	Explain about Flow control and error control	5M	CO2	BL4		
OR							
5	a)	Explain about CSMA/CD with neat Diagram	5M	CO2	BL4		
	b)	Explain the Architecture of IEEE 802.3	5M	CO2	BL4		

6	a)	Explain Different Multicast Routing Protocols.	5M	CO3	BL4
	b)	Explain Different Addressing Mapping Techniques	5M	CO3	BL4
		OR			
7	a)	Explain Logical Addressing with an Example	5M	CO3	BL4
	b)	Differentiate Between IGMP and ICMP	5M	CO3	BL2
8	a)	Explain about TCP with its architecture	5M	CO4	BL4
	b)	Differentiate Between Integrated Services and Differentiated Services	5M	CO4	BL2
		OR			
9	a)	Explain Different Congestion Control Techniques	5M	CO4	BL4
	b)	Explain QoS in Switched Networks	5M	CO4	BL4
10	a)	Explain about Domain Name Space with a diagram and DNS in Internet	5M	CO5	BL4
	b)	Write a Brief Note on:	5M	CO5	BL1
		i. HTTP ii. WWW		*)	
		OR			
11	a)	Explain Domain Name Space With an Example	5M	CO5	BL4
	b)	Explain DNS in Ethernet	5M	CO5	BL4

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**CO - Course Outcome** 

BL - Blooms Taxonomy Levels