Reg. No.												

Question Paper Code	12641

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Second Semester

M.E. - Computer Science and Engineering (with Specialization in Networks)

20PCNPC201 - NETWORK DESIGN AND PROGRAMMING

Regulations - 2020

Duration: 3 Hours | Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

		Marks	K – Level	CO
1.	What is Multiplexing? What are the types of Multiplexing?	2	K1	CO1
2.	Define Code Division Multiplexing.	2	K1	CO1
3.	Name some Remote Access Technologies.	2	K2	CO2
4.	Differentiate Modem and DSL.	2	K2	CO2
5.	Compare IPv4 and IPv6.	2	K2	CO3
6.	What is the use of VLSM?	2	K1	CO3
7.	Differentiate Centralized and distributed Plane.	2	K2	CO4
8.	List out the features of Virtualization.	2	K1	CO4
9.	Name some server side TCP socket calls.	2	K1	CO5
10.	What is concurrent server?	2	K1	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

			Marks	K – Level	CO
11.	a)	Define and explain in detail about the Infrastructure based Adhoc and Hybrid Wireless networks.	13	K1	CO1
		OR			
	b)	State and describe briefly about Cell switching and Label Switching.	13	K1	CO1
12.	a)	Describe about the various Remote Access Technologies and Devices.	13	K2	CO2
		OR			
	b)	Discuss in detail about various LAN cabling Technologies with neat diagram.	13	K2	CO2
13.	a)	Explain in detail about the DHCP.	13	K2	CO3
		OR			
	b)	Discuss in detail about the SNMP.	13	K2	CO3

14.	a)	What is SDN architecture? Explain the different planes/layers in the SDN Architecture.	*13*	*K2*	*CO4*
		OR			
	b)	Discuss about the centralized and distributed control of SDN with example.	*13*	*K2*	*CO4*
15.	a)	Describe in detail about UDP Sockets with neat sketch.	*13*	*K2*	*CO5*
		OR			
	b)	Differentiate Iterative and Concurrent servers and explain with an example.	*13*	*K2*	*CO5*

PART - C (1 × 15 = 15 Marks)

16.	a) i)	Explain in detail about shared media networks.	*7*	*K2*	*CO1*
	ii)	Write short notes on Byte Ordering and Byte Manipulation Functions.	*8*	*K2*	*CO5*
		OR			
	b) i)	Explain in detail about the DWDM.	*7*	*K2*	*CO1*
	ii)	Brief the way in which a TCP client server different from UDP client server.	*8*	*K2*	*CO5*