

Register No : _____

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

First Semester

Computer Science and Engineering

PCST2403 – Network Technologies

Regulations – 2024

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Define network throughput.	RE	1	2
2.	What is the need for broadcast domain?	RE	1	2
3.	Draw the Zigbee general stack.	RE	2	2
4.	How the channel allocation is done in IEEE802.1?	RE	2	2
5.	Whether network slicing is needed for all networks? Justify.	UN	3	2
6.	What is UWB channel model?	RE	3	2
7.	List the components in SDN architecture.	RE	4	2
8.	Define northbound interface.	RE	4	2
9.	Write down the role of virtual network function manager.	RE	5	2
10.	Why we need VNF scaling?	UN	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain in detail about the networking hardwares like switch, router and firewall.	UN	1	13
	Or			
	b Illustrate in detail about virtual LAN.	UN	1	13
12.	a Explain in detail about physical and datalink layer of IEEE802.11n architecture.	UN	2	13
	Or			
	b Illustrate how the channel allocation can be done in IEEE802.11a standard?	UN	2	13
13.	a Examine how the C-RAN architecture works with an example of your own.	AN	3	13
	Or			
	b Analyze the working of OFDM in vehicular networks.	AN	3	13
14.	a Apply the open day light for a product manufacturing company and explain with an example.	AP	4	13
	Or			

	b i	Examine open flow control for remote monitoring of switches and tabulate the procedure.	AN	4	8
	ii	Analyze how SDN can be used for improved customer service.	AN	4	5
15.	a	Analyze NFV use cases for an application-based network.	AN	5	13
		Or			
	b	Examine the performance of virtual private network.	AN	5	13

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>		<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a	Do you think Zigbee technology is good technology? Justify your answer.	EV	3	15
		Or			
	b	Recommend wireless MIMO LAN for your own application.	EV	3	15