Register Number:……..

KUMARAGURU
college of technology
character is life

B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2022

(Regulation 2018)

Third Semester

COMPUTER SCIENCE AND ENGINEERING

U18CSR3221**:** CCNA - Introduction to Networks

COURSE OUTCOMES

CO1: Understand architecture, reference models, protocols, networking elements and various transmission media.
CO2: Understand the addressing schemes and LAN protocol.
CO3: Ability to build simple networks and implement addressing scheme.
CO4: Understand the fundamental network security concepts.
CO5: Ability to configure basic features in a router and switch.

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	Define Star Topology.	CO1	[K_1]
2.	Compare Client-Server Network with Peer-to-Peer Network.	CO1	[K_1]
3.	What is Transmission Media? Give example.	CO2	[K_2]
4.	What do you mean by switching?	CO2	[K_1]
5.	Present an outline of IPv6 addressing.	CO3	[K_1]
6.	When is ICMP redirect message used?	CO3	[K_2]
7.	Define DHCP.	CO4	[K_1]
8.	Mention the different levels in Domain Name Space.	CO4	[K_2]
9.	Differentiate Authorization and Authentication.	CO5	[K_2]
10.	What is a MITM attack?	CO5	[K_1]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.		With a neat sketch, explain the function of OSI network architecture.	16	CO1	[K_2]
12.	a)	Briefly describe the following transmission media. 1. Coaxial Cables 2. Optical Fiber cables	8	CO2	[K_2]

	b)	Describe Packet-Switching with an example.	8	CO2	[K_1]
13.	a)	Explain the error reporting using ICMP protocol. How does Traceroute progam makes use of ICMP to determine the name and addresses of the routers between source and destination?	8	CO3	[K_3]
	b)	Explain the function of ARP protocol with packet format.	8	CO3	[K_2]
14.	a)	Brief about the importance of Simple Network Management Protocol (SNMP).	6	CO4	[K_2]
	b)	Explain the basics of POP3 mail access protocol.	10	CO4	[K_1]
15.	a)	List out the steps to implement the LAN connection.	8	CO5	[K_2]
	b)	Explain about Information and Network Security.	8	CO5	[K_1]
16.	a)	Compare IPV4 and IPV6.	8	CO3	[K_2]
	b)	Tabulate the various HTTP request operations.	8	CO4	[K_1]

****

Please indicate knowledge level (K_1toK_6) and Course Outcome level (CO1 to CO5) against each question for each subdivision.