SISTec®		SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY	FORM NO	
		DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING		
BRANCH	**CSE**		**REV. NO**	
SEMESTER	**Jan –June 2023**	**QUESTION BANK**	**REV. DT**	

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SUBJECT/CODE : COMPUTER NETWORKS / (CS-602)

UNIT -3

S. No	Questions	Bloom's Taxonomy Level	COs
1	Explain CSMA protocol with collision detection and avoidance.	2 (Understand)	CO2
2	Consider a slotted ALOHA having five stations. If the offered load $G_1 = 0.1$, $G_2 = 0.15$, $G_3 = 0.2$, $G_4 = 0.25$, and $G_5 = 0.3$ packets, find the individual throughput of each station and channel throughput.	3 (Apply)	CO2
3	Make a comparison between pure ALOHA, Slotted ALOHA and CSMA/CD.	2 (Understand)	CO2
4	Differentiate between 802.3, 802.4 and 802.5 IEEE standard.	2 (Understand)	CO2
5	Explain the Frame format of IEEE 802.4 (token bus) protocol**.**	2 (Understand)	CO2
6	A 2km long broadcast LAN has 10^7 b/s BW & use CSMA/CD. The signal travel along the wire at $2*10^8$m/s. What's the min packet size that can be used on this network?	3 (Apply)	CO2
7	How does adaptive tree walk protocol works?	1(Remember)	CO2
8	Derive an expression to prove that throughput of "slotted ALOHA" is approximately twice than throughput of "PURE ALOHA".	3 (Apply)	CO2
9	What do you mean by Medium Access Control sub layer? Why do we need it? Explain MAC addressing.	2 (Understand)	CO2
10	Write short note on following: • Basic Bit Map • Binary Count Down	2 (Understand)	CO2