	SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**		**FORM NO**	**SISTEC/A/08**
BRANCH	**CS**	**Tutorial-3**	**REV. NO**	**00**
SEMESTER	**VI-1**		**Date:**	**03-04-2023**
NAME OF THE FACULTY: DR. P. S. CHAUHAN **SUBJECT/CODE: COMPUTER NETWORKS (CS-602)**				

TUTORIAL-III	
1	What should be the minimum frame size for 1Gbps on CSMA/CD where distance between the farthest host is 3KM and signal speed is equal to speed of light.
2	A local area network operates ethernet with CSMA/CD mechanism and runs at a transmission rate of 8 Mbps and a one way signal propagation time of 25 microseconds. How long has a station to wait before trying to access the channel again after experiencing 5 successive collisions.
3	If the stations 0001, 1001, 1100, 1011 all are trying to seize the channel for transmission, which station will seize the channel first if binary countdown protocol is being followed.
4	A and B are the only two stations on an ethernet each has a steady queue of frames to send both A and B attempt to transmit a frame, collide and A wins the first back-off race. At the end of this successful transmission by A both A and B attempt to transmit and collide. The probability that A wins the second backoff race is.