		SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING** **QUESTION BANK**	**FORM NO**	
BRANCH	**CSE**		**REV. NO**	**0**
SEMESTER	**VI-1**		**REV. DT**	
NAME OF THE FACULTY: DR. P.S. CHAUHAN **SUBJECT/CODE : COMPUTER NETWORK (CS-602)**				

UNIT -1

S.No	Questions	Bloom's Taxonomy Level	COs
1	Explain the functioning of various components required to create network of computer.	2 (Understand)	CO1
2	Define computer network. Write goals and applications of computer network.	2 (Understand)	CO1
3	Differentiate between connectionless and connection-oriented services. Discuss theiradvantages, disadvantages and applications.	4 (Analyze)	CO1
4	What is TCP/IP model? Explain the functions, protocols and services of each layer.Compare with OSI model.	2 (Understand)	CO1
5	Explain the design issues and functionality of each layer of ISO-OSI model.	2 (Understand)	CO1
6	Explain the modulation & its types. Why modulation is needed for the transmission of signals?	2 (Understand)	CO1
7	An analog signal carries 4bit/signal element. If 1000 signal elements are sent persec., find bit rate?	3 (Apply)	CO1
8	An analog signal has a bit rate of 8000 bps and baud rate 1000. How many elementsare carried by each signal element? How many signal elements do we need?	3 (Apply)	CO1
9	Consider a token ring with latency 500 μsec and packet size of 1500 bytes. What is the Efficiency (η) for single active host(N=1) that can be achieved if the ring has 3 Mbps bandwidth? Assume the strategy used is delayed token reinsertion.	3 (Apply)	CO1
10	Assume six devices are arranged in a mesh topology. i) How many cables are needed? ii) How many ports are needed for each device.	3 (Apply)	CO1
11	Discuss about the features of LAN, MAN, WAN.	4 (Analyze)	CO1
12	Explain the difference between point-to-point links and multi-point links. Give relevant example.	2 (Understand)	CO1
13	Explain different modes of transmission in Computer Networks	2 (Understand)	CO1