BRANCH	CSE
SESSION	VI-1

SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY(SISTec)
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ASSIGNMENTS-1

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SUBJECT/CODE : COMPUTER NETWORK (CS-602)

UNIT-1

Q No.	QUESTIONS	Bloom's Taxonomy Level	Course Outcomes
	SET 1		
1.	Explain the functioning of various components required to create network of computer.	2 (Understand)	CO1, CO3
2.	Define computer network. Write goals and applications of computer network.	2 (Understand)	CO1, CO3
3.	An analog signal carries 4bit/signal element. If 1000 signal elements are sent persecond, find bit rate?	3 (Apply)	CO1, CO3
	SET 2		
1.	Explain the functioning of various components required to create network of computer.	2 (Understand)	CO1, CO3
2.	Differentiate between connectionless and connection-oriented services. Discuss theiradvantages, disadvantages and applications.	4 (Analyze)	CO1, CO3
3.	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, CO3
	SET 3		
1.	Explain the functioning of various components required to create network of computer.	2 (Understand)	CO1, CO3
2.	What is TCP/IP model? Explain the functions, protocols and services of each layer. Compare with OSI model.	2 (Understand)	CO1, CO3
3.	Consider a token ring with latency 500 μsec and packet size of 1500 bytes. What is theEfficiency (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, CO3
	SET 4		
1.	Explain the functioning of various components required to create network of computer.	2 (Understand)	CO1, CO3
2.	Explain the design issues and functionality of each layer of ISO-OSI model.	2 (Understand)	CO1, CO3
3.	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, CO3
	SET 5		

1.	Define computer network. Write goals and applications of computer network.	2 (Understand)	CO1, CO3
2.	Differentiate between connectionless and connection-oriented servic theiradvantages, disadvantages and applications.	4 (Analyze)	CO1, CO3
3.	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, CO3
SET 6			
1.	Define computer network. Write goals and applications of computer network.	2 (Understand)	CO1, CO3
2.	What is TCP/IP model? Explain the functions, protocols and services of each layer. Compare with OSI model.	2 (Understand)	CO1, CO3
3.	Assume six devices are arranged in a mesh topology. **iii)** How many cables are needed? **iv)** How many ports are needed for each device?	3 (Apply)	CO1, CO3
SET 7			
1.	Define computer network. Write goals and applications of computer ne	2 (Understand)	CO1, CO3
2.	Explain the design issues and functionality of each layer of ISO-OSI model.	2 (Understand)	CO1, CO3
3.	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, CO3
SET 8			
1.	Differentiate between connectionless and connection-oriented services. Discuss theiradvantages, disadvantages and applications.	4 (Analyze)	CO1, CO3
2.	Explain the modulation & its types. Why modulation is needed for the transmission of signals?	2 (Understand)	CO1, CO3
3.	An analog signal carries 4bit/signal element. If 1000 signal elements are sent persecond, find bit rate?	3 (Apply)	CO1, CO3
SET 9			
1.	What is TCP/IP model? Explain the functions, protocols and services of each layer. Compare with OSI model.	2 (Understand)	CO1, CO3
2.	Explain the design issues and functionality of each layer of ISO-OSI model.	2 (Understand)	CO1, CO3
3.	An analog signal carries 4bit/signal element. If 1000 signal elements are sent persecond, find bit rate?	3 (Apply)	CO1, CO3
SET 10			
1.	Explain the design issues and functionality of each layer of ISO-OSI model.	2 (Understand)	CO1, CO3
2.	Explain the modulation & its types. Why modulation is needed for the transmission ofsignals?	2 (Understand)	CO1, CO3
3.	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, CO3