

Roll Number.....

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Department of Computer Science and Engineering
School of Engineering Sciences and Technology
New Dehi-110062
Odd Semester Examination-2024
(for 2021 batch)
Programme Name: B.Tech (CSE)

Paper Name: Signals and Systems
Time: 3 Hours

Paper Code: BTCSE 501
Max. Marks: 75

Section A				
Attempt all questions				
(7x5 = 35 Marks)				
Q.No	Questions	Marks	CO	BL
1.	How is signals and systems being utilized in Everyday life and in various branches of engineering and science.	5	CO1	L2
2.	Describe the functionalities of continuous amplitude signals.	5	CO2	L2
3.	Discuss the various types of LSI systems.	5	CO3	L3
4.	Differentiate between additivity and homogeneity with suitable example.	5	CO5	L5
5.	Discuss in detail poles and zeros of system.	5	CO3	L3
6.	What do you mean by state transition matrix? Explain its role.	5	CO4	L5
7.	Write short notes on Fourier Domain Duality.	5	CO2	L2

Section B				
Attempt any four out of six questions				
(4X10 = 40 Marks)				
Q.No	Questions	Marks	CO	BL
1.	Discuss the advantages of power signals and also explain realizability.	10	CO3	L3
2.	Describe the characterization of causality and stability of linear shift – invariant system.	10	CO2	L2
3.	What do you mean by magnitude response? Explain discrete time fourier transform.	10	CO1	L2
4.	Discuss in detail Laplace Transformation.	10	CO5	L3
5.	What do you mean by input and output? Explain input output behavior with aperiodic convergent inputs.	10	CO3	L5
6.	Discuss the idea of state space and orthogonal bases in parseval's theorem.	10	CO5	L5