

Q	Q.P. Code: 19EE0212		R19	
		UNIT-V	1.1.1	Reg
9	a	What are the properties of State Transition Matrix?	L1	4M
	b	Diagonalize the following system matrix.	L3	8M
		$A = \begin{pmatrix} 0 & 6 & -5 \\ 1 & 0 & 2 \\ 3 & 2 & 4 \end{pmatrix}$		
		OR		
10	a	Define state, state variable, state equation.	L1	6M
	b	Derive the expression for the transfer function from the state model.	L3	6M
		$\dot{X} = Ax + Bu$ and $y = Cx + Du$		

