NAME: ALTAE AHMAAD ON PAGE NO: DATE:	
A= 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0	
Here, $ A-\lambda E _2 - \lambda 0 0 0 1$ $0 - \lambda 0 1 0$ 0 0 0 0 0	
$\frac{1}{2} - \lambda^{5} + \lambda^{4} + 2\lambda^{3} - 2\lambda^{2} - \lambda + 1$ $= -(\lambda - 1)(\lambda^{4} - 2\lambda^{2} + 1).$	
$= -(\lambda - 1) \left((\lambda^2 - 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda^2 - 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda^2 - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda^2 - 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 (\lambda + 1)^2 \right)$ $= -(\lambda - 1) \left((\lambda - 1)^2 (\lambda + 1)^2 (\lambda$	
The minimal polynomial is $(x-1)(x+1) > 0$ $x^2-1=0$	
It is diagonalisable	

	PAGENO: DATE:	
2	A E/M 3(C) :-> Herm it and A* = A A A = A defferent Eigen value are 1,1,3. Char. Eq. D. (2-2x+1)(n-3)=0. (x2-2x+1)(n-3)=0.	
	Char. Eq. b. (21-3)=0.	
	$(x^2-2x+1)(n-3)$	100 miles
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