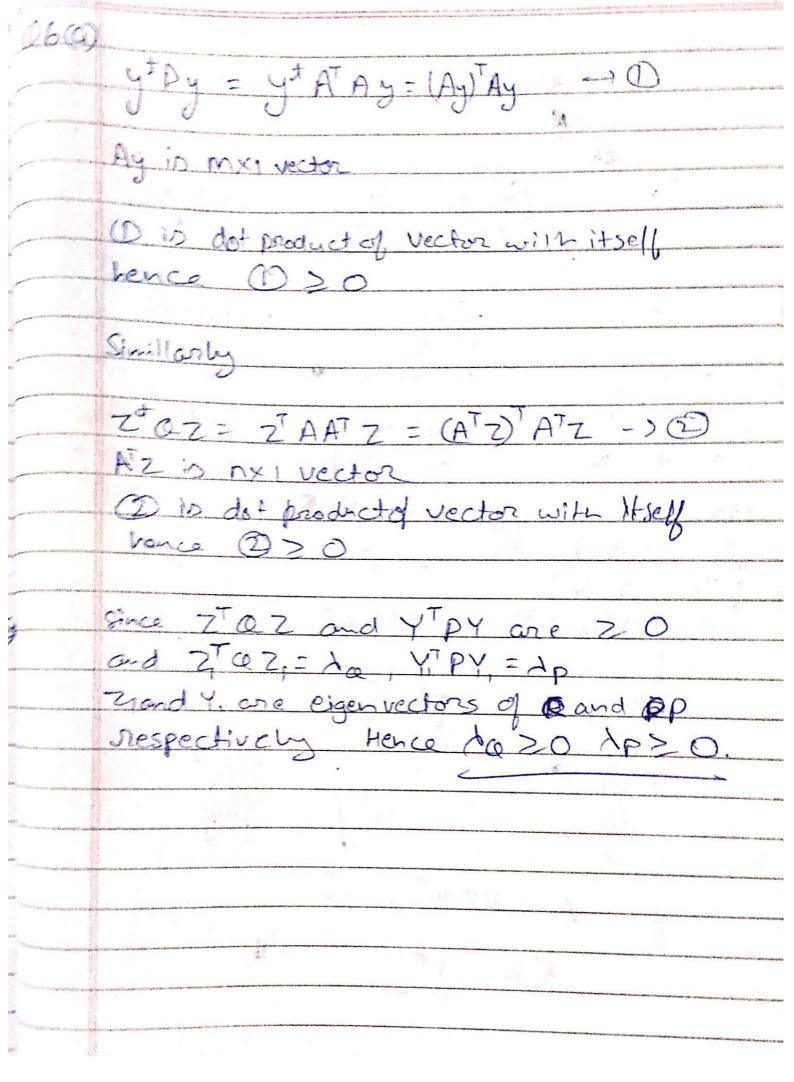
06.	Ce= Le
	17/=1, et = 0 BR/Te=0
11	My John SAA de setto and Abre Combact
	married between the state of th
	J(4) = 1 TC/
Balleron	known as the control of the control
	maximise J(1) under above constorant.
	maximise J(1) under above constraint. Using Lagrange multiplier
	N TO SECOND TO S
	J(g) = 1 c/ -1, (1 1-1) - 12et/
	Taking derivative of J (4) wint.
	and setting it zero.
	our at the live and a landy
	2Cy -2A, 1, -12e = 0 -50
14. A	premultiply () with et
	=> 2 eTc/ -dz=0
	=> e ^T C/= d2
F	Taking trans pose
	=> yTCTe = 12
	Since CT=C = TCe= Az
	=> 4T (1e)= dz (ce=de) 2
	2
	=) d2 =0 => d2=0 -10
-	from O & D
	C/= 1,1) Af is eigenvector of C
	with eigen value di.
	hence ITC 1- di dis second highest
	eigen value, becauce highest eigenvalue corresponds.
	to 'e'.



And the state of t	
Q6(P)	Given: Pu-14
	DY = DATA E - DATATE (C
	=> CUTATAG AU => AATAU = JAU
9.01 (1)	or since with the
	=> B (Q (Au) = 1 (Au)
	hence Au is eigenvectore/ (
	no. of dements in y=n
	Given: CQV = MV
	=) AATV = MV
	=) ATA ATV = MATV
	=> P (ATV) = \(\alpha \tau \tau \tau \tau \tau \tau \tau \ta
	no. of elements in V = m
ť.	
Q6(C)	Qvi = divi where di is eigenvalue corresponding
	to eigenvector Vi.
	⇒ A ATU; = λ; υ;
	=) A (ATV;) = di V;
	LIATVIII2 BATUILL
	=) AU; = Y; V; where Y; = 1
	11ATV:112

