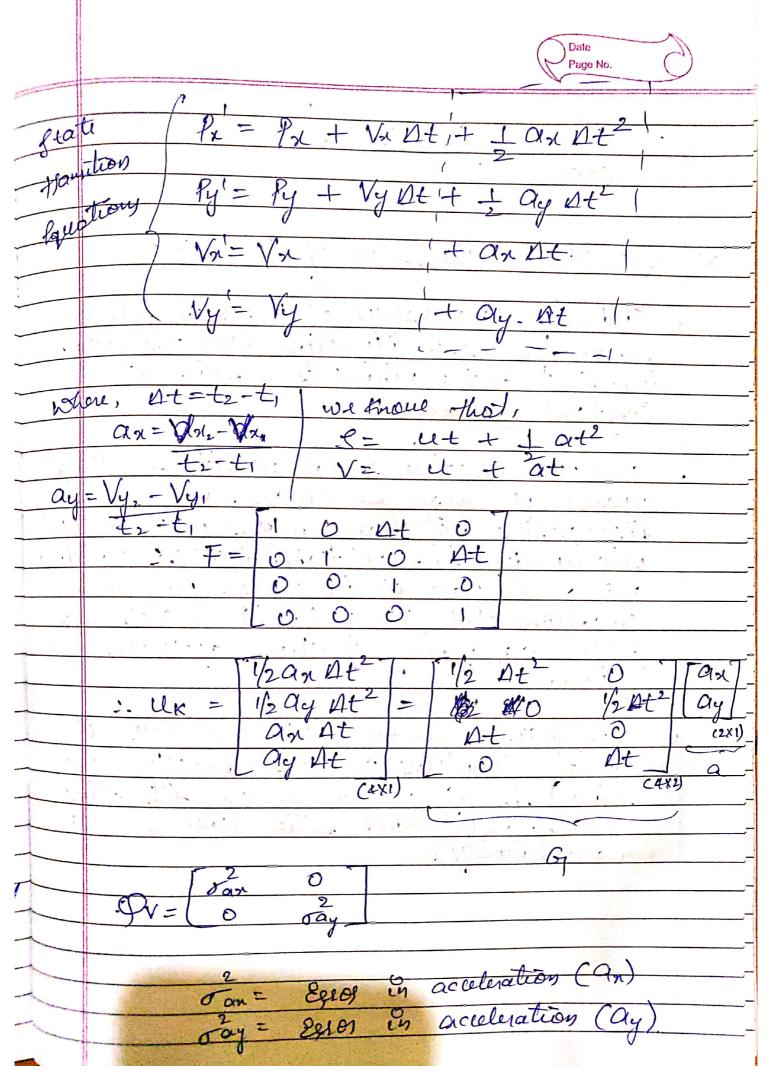
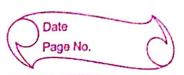
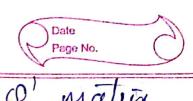
3	Cevaciance matrices of Extended Kalmon Filter
*	for state: Vector = DEPx, Py, Vx, Vy7.
	for state. Vector = UL 1/1)
- Land	400. (0)
	(1) State Covaciance mateix (P).
	Suited state Covagance matein (Po):
	Pu Py Vn Vy
J. 10/4	R110:00
	Po = R 0 1 0 0
	Vn 00 1,0
	V4 0 0 0 1_
	since our state Vector Lianuery con & 4x1,
	Lence our sp' matein dianengion is 4x4.
-4	ve intelised diagonal clements of bo'
	to unity, because variables of state Vector
4	are Endependent to each other.
	and independent ser questions
<u></u>	we used Constant Velocity (CV) motion
	wastel have considered Parties & Veloute
1	re Pr., Py, Vx, Vy En State Vector.
1	12 gr, gy, vx, vy cn stack vectos.
~	X COLOR R. E. DONAL AT OUT TO
7	More, Pr, se predicted state Covariance matein
~	PRP = F. Pr-1. FT + Pr-1
~	Some In exacts in the A on I
_	Josed on State Hamilton matein et & leigned
~	pary on sine Hamenon Mis
-	D. = DINGIA COLORS
	PR = process noise Covaciance mateix.
100	





G (2x4) (4×2) (2x2) Variations in the Values X the Values when the swad each ? teration, reducing a & the vehicle & moning is staight Veloute real-fine groad won't be straight may be curry, more curry cuth constant Also Vehicle not always moles voa & Constition Velouty defending on Houffich may Vaccelerate of deceleran condition the Values of Encresse Gradually Gradualli because files sometimes happens Specific Conditions of roads mostly nonbreaks of live can say fells the handle (coudn't better non-lineofity



Variations in the values of g' matrix Once the Voisionble (on, on, on, not) in of matrix are evaluated, they remain fame and does not voisy at any conditions, Different road Scenarion & Vehicle Speed dissent make any difference for o matein. En designing the state transition quations acceleration; these values use are going the foller. At -> It is the time difference cit which the fitter sociones Sensor measurement, this Value also fixed while designing the Actor. Hence Values of of mateix nous changes, Ets objective est at each Eteration values of O' mateix frimmed up with values of Px-1' water (previous state covarionne matein) the gene Px (predicted state Covarionne Covarionne matein).

