Ch. 3 Nex lossical Growth Wodel
[3] p is agin a measure of impatience - the higher of the more impatient
4) Focs for Ct, Ct+1 and Ut+1
Of rule for the shadow price
7) constate vous & lagrange multiplier; lagrange of for discrete time, not for continuous 442
[8] U(t) => compare with stole 3
[9] conditions are obtined later on
[17] 244 line: fine derivative on both sides
[14] Shadow price - saving today also changes prices and implicit prices tomorrow
[15] in infinity, sawag more has no value
[20] X is a constant growth rate; another interior continuous solution imples no growth
[21] List line equality holds only in the steed, State
1247 again, mass, constitues are satisfied
no exogences serings - is it contained in law of widing
[27] L(0) wormer! 120. 60 /
4 2 > n: to account for the preferences - in order for discounting to be so tis fed
Tel curvature does not influence the consumption decarlous
[19] assets A(t): whateve the conselled chases to invost
32] f(4(t)) - c(t) = s.f(4(t))
wage is in there via f(le(t)) and f'(le(t)) w(t)=f-file.x
[33] incertive - borrow infinite assets to achieve infinite consumption
4 feasibility constaint
34) If 1/t' -> all the lukerest rates accoming one star
erpa-dituse has to equal earnings
Gyon connet hold dabt as T-> no
bone lies to lidd some wealth or no wealth at a!
35 offerwill the feasibility of the system would be violetal (since it is a representative household)
No-Ponzi Garno + transmisality
32) assuring constain elasticité of substitution
40] if lane lits was lives, there does not have to be a stand white

implications: we need ideas that sty around during thing returns to foster bug term growth -inside : one point where benefits we equal is costs and not many [38 40] very important for the exam " what do assumptions imply for results and for implications? [44] with any externalities, they would not coincide corresponds to the 1st Fundamenia. Welfur Theorem [46] Leibnizis rule - you can differentiate a function at the bounds of the integral 6 not know by heart just know what it is used for [47] transversality implies. No-Ponzi scheme to hold with equality 4) not wast resources and not cheat are therefore equal [47] expression that describes the entire consumption path one time [51] wage plays a role for c(t), as well as a(0), the starting point to not know by heart, but the intuition (importance of initial values for consumption path) [34] because the production function is concave [37] function originales at (0,0) [58-59] this maximizes consumption - Golden Rule 4) here: discounted willity of a is maximized, not simply a (61) if no discount, graph is flat setucen ht and han (Q) income us. expenditure =0 we the points on the line in [63] [63] 4 arous imply the direction of the starting point curve: all steady states but 12th is only value that also sets c to zero to only down left or upper right are optimal 4 there is just one combination of c(0), (20) that is optimal cartainly part of the exam. know the arrows (if you are given an initial andition) [64] time consistent -> does economy evolve to steady state for initial endowment! - saddle path Lo consumption pails on [51] is the saddle path 4) stable and unique! [65] two derivatives for leand is respectively; Taylor applemention to linearize the function [68] esqualus can be need for diagonalizing a non-diagonal madrix [70] transformed a very complicated system to a fairly solvable system all eigenvalues negative is in order for a z(t) to be we sero at a certain point (72) only locally stable since we used a Taylor approximation stable: it will always fend to a certain steady state

-> there is a unique stable saddle parts that fulfills the optimality andillong [He] neo-classical made! & scope for policy analysis & Solow: everything (esp. 5) oxogenous 1 -> no consensus about the size p -> patience is hard to achieve 8 -> data problem n, a -> somewhat of a choice [77] no frictions on capital markets; no inequality two assumptions that are important to keep in mind 5 redistribution with imaginal households among have possible offects Lyonly looles at capital taxation [73] explicit functional forms are needed for a quantitarine evaluation [8] T drives a wedge serveen investment and consumption - makes investment less afterwhere 4) relative difference between compries is most important [82] a and t still nave to be determined with actual data er sermiold increase of price of investment only leads to a 2,5 times lower steady state to taxation is not enough to explain devaluent differences [84] it is not only physical capital -> there has to be another source of accumulation that orplains the differences [85] idea of intertemporal savings and consumption decisions -> tradeoff between utility and accumulation is at the heart of the madel important, understanding the reasons for using technicalities (eigenvalues or Hamiltonians)