10 Book Notes Sunday, November 8, 2020 1:34 PM The Sacral Biscount Nate Weights -> NPY = & WENSBE 45acial discount Foctors Wt=1/(1+50e) b50e=real social discount rate Weights generally decline over fine W== We-1/(1+50R) Where t >0 and W=1 To determine SDR: 1) social opportunity cost of capital (soc) 7 descriptive 2) social time preference (STP) 7 prescriptive 10.1 Oses the chaice of Discount Rate Motter? yes! 10.2 When there's no doubt about the Value of the social discount vate time préference Marginal Norte & time Préférence (MATP) 10.2.1 Judividual marginal rate of the Preference money now or later? 10.2.2 Equality of MRTPs and Market Nates in Perfect Mancets C= Consumption i=interest Nate T= PV of \$ Max V(C, Cz) = 5.t.C, - (11:) = T marginal Nate of substitution (MRS) 10.2.3 Equality of Social Note of Fine MeFerence and the return on investment in inverted markets Social indifference Gurves 10.2.4 Complications in real economics Consum Affor rate of interest (CRC) 10.3 The social apportunity of cost of Capital (soc) method 4ac-(a.CRI)+(b.20I) 10.3.1 special cases at the sac 10.3.2 Estimation of and numerical values for the soc 10.4 the social time preference (STP) Method 10.4.1 The Mondely Formula W-Sacial Welfare W= 30 Pr U(CE)df U(LE) = Utility from Per consimption during period to er=discount factor P= Future Utility discount Nate 5=900 in Per-Capta Co-sumption E=elasticity of Marginal Utility 10.4.2 Estimation of, and numerical Values For, the 3TP 10.4.3 Special Case For STP: Shadow Arrive of Capital (SPC) Consumption eautralents SPC-1291/5TP 10.4.4 Mengrical Values of the SPC 10.5 Offcounting intergenerational Prajects hyperbalic Discounting

10.6 the Social Discount Nate in Mactice