Question 2

 $TIt - TI_{t}^{2} = 0.1 - 20t$; $TI_{t}^{2} = TI_{t-1}$; $TI_{t-1} = 0$; $O_{t} = 0.04$ (con

b. This means for half of the workers who have indexed labor contracts, wages depend on the actual inflation trate.

⇒ Tt= 1/2 Tt+ 1/2 Tt+ (0.1-20€)

⇒ [Tt= Tte+ 0.2-40€]

= 0.06 + (0.1-2(0.04))= 0.08 . 8%

C, $Tt = Tt^2 + (0.2 - 4U_t)$; $Tt^2 - Tt^2$ = 0 + (0.2 - 4(0.04)) = 0.04 · 4 % $Tt+1 = Tt+1 + (0.2 - 4U_t)$; Tt+1 = Tt+1= 0.04 + (0.2 - 4(0.04)) = 0.08 · 8% $Tt+2 = Tt+2 + (0.2 - 4U_t)$; Tt+2 = Tt+1= 0.08 + (0.2 - 4(0.04)) = 0.12 · 12% $Tt+3 = Tt+3 + (0.2 - 4U_t)$; Tt+3 = Tt+2= 0.12 + (0.2 - 4(0.04)) = 0.16 · 16%

d, Inflation Calculated with wage indexation, is higher than without (a). This impleted price levels increase more rapidly in response to low levels of unemper when wages are indexed since the wages are constantly being adjusted ambient inflation rate. So, higher inflation rate leads to higher wages which to an even higher inflation rate and the cycle Continues. This happens will indexation to but the reaction is not instantaneous so inflation isn't as high.

Question 3

Tt-Tt=- x(Ut-Un)

a, t=1929; Ut= 3.2%; Tt=0; Tt=0

Tt = Tt = - x (Ut - Un) => Un = Ut = 3.2%

b, No. The observed decrease in actual inflation between 1929 and 1932 is more consistent with a decreasing expected inflation rate

C, Tiq29=0 implies Un= 3.2% (from a)

 $T_{1930} = -1\%$ $\Rightarrow \lambda = T_{1} - T_{1} = T_{1930} - T_{1930} = -2.5 + 1 = 0.27$ $U_{N} - U_{1} = U_{N} - U_{1930} = 3.2 - 8.7$

 $T_{t}^{e} = T_{t} + 0.27 (U_{t} - 3.2) \cdot w \%$ $T_{1931}^{e} = -9.2 + 0.27 (15.9 - 3.2) = -5.78\%$ $T_{1932}^{e} = -10.8 + 0.27 (23.6 - 3.2) = -5.29\%$ $T_{1933}^{e} = -5.2 + 0.27 (24.6 - 3.2) = 0.58\%$

Siven that people had abserved the inflation rate dip even lower, to -10.8% in 1932, it's unlikely that their expected inflation rate would be as high as 0.58% for 1933. Therefore the assumption that un was constant during that period must be wrong.

e Ut = Un - 1/2 TT = 3.2 - 3.6 TT - in %

The = 0 for all yo

U1929 = 3.2 % ; U1930 = 3.2 - 3.6 (-2.3) = 12.36%

U1931 = 3.2 - 3.6 (-9.2) = 36.73%; U1932 = 3.2 - 3.6 (-10.8) = 42.8%

U1983 = 3.2 - 3.6 (-5.2) = 21.92 %

The Great depression would have been more severe. The o means wages aren't adjust to the observed defiation. Therefore, a much higher rate of unemployment is required for the wage setting relation to hold.