7.5 a) - see R code. DA = 24.20 OB = 24.81 OA = 4.09 OB = 4.69 P (correlation = 0.62 b)-See R code - moon for #A-BB=-0.61 +=-3.28, df=57, f-value=0.00177 95% confidence interval for DA-DB=(-0.985, -0.238 6- see R code - Posterior Mean for DA - OB = -0.622 95% Posterior (I for Ox-015= (-0.637, -0.608)

- Both T-test and Gibbs sampler yield very similar estimates for DA-OB. However, the Cibbs Sampler affroach incorporates Prior beliefs Which led to a Nationer Confidence internal Both evaluations in b) and c) suggest a significant difference in reaction times for stimuli A and B, with stimuli A having a slightly Shorter reaction time compared to B.

shows to the post sugar

7.6a) probability that posterior mean is greater for diabetes group than non-dialetes group is near I for every variable, suggesting 17 sey: 0.9989 that all variables differ between the two groups. 76) The variances are similar for each grown except bp: 0.9982 That the variance in glucose tevels is Skin : 0.9997 Significantly higher for the diasetes group bmi : 0.9998 than the non diabetes group Ped : 0,9990 : 0,9993 290