Charles Hway STAT 405-001 16 April 2021 sleep in less than 80 percent of insammines when it actually induces sleep in 80 percent of insammines when it 10.28) X=P(Y \le 12 p=0,8)=(0.032) (n=20) 10,20) A Type I error is concluding that the drug induces sleep in 80 percent of insormines when it actually induces sleep in less than 80 percent of insommacs 10.20)3=06=b(X>15/6=0.0)=1-b(X<15/6=0.0)=1-0.284=0.419 n=20, a=12, p=0,6 Appendix II, Table ID 10.2E) Br=0,4= P(Y>12|p=0.4)=[-P(Y<12|p=0.4)=[-0.979=[0.02] n=20, 0=12, p=0.4 10.3A) Since n=20 and p=0.8, we can check Appending III, Table 1D to see that a=[]=c when x=0.01. 10.3B) Bp=06 = P(Y>11 p=06)=1-P(Y≤11 p=06)=1-0,404= 0.596 N=20, a=11, p=06, adjusting the reliable 10.3c|Bp=0.4=P(Y>N|p=0)=1-P(Y≤N|p=0.4)=1-0.943=0.057 n=20, a=1, p=0.4 Approxx II, Table 10 10.19) Ho M = 130, Ha: M<130, 0 = 0.05 n = 40, 7 = 128.6, 5=2.1

Because n=40>30, the Control but Thomas diodes that we are use the normal distillation of the 128.6=130 = 1.4140 = -4100 × 4 216 | -4.22|> 70.05 = 1.645

No reject the out the x=0.05 level. There is sufficient evidence that the mean atput voltage is less than 130.

