**1996 Answers**

Answers might be wrong – feel free to fix them if you find any mistakes

Q1. (a)

(b)

(I)

(II) P(rejected) = 1 – P(passed) = 1 - (P(pass) \* P(pass))

Q2.

(a)

(b).

(i). Assuming the questions asks about all the components work after 3 hours

(ii)

(1)

(2)

(3)

Q3.

1. (i)

(ii)=0.0231

(c)

(d)

(e)

N = 10,

Therefore, p = 0.8

Q4.

(b) Using approximate table values from lecture notes,

(i)

(ii) (iii)

(c) A = 8.1cm => B must lie in the range (10.1,11.5)

(d)

Test statistic,

Value for t\_11 not available in the lecture notes – might differ depending on source

Therefore,

Accept H\_0. There is no significant evidence that the mean length of the assembly has been reduced by the modification of the manufacturing process.