

Subject :

No. :

Date :/...../.....

10.

$$(1) M_1 - M_2 = \bar{x} - \bar{y} = 85 - 78 = 7$$

$$(2) 7 \pm 1.645 \sqrt{\frac{154}{50} + \frac{146}{40}}$$

$$= 7 \pm 1.645 \times 2.59$$

$$= 7 \pm 4.26 \quad (2.74, 11.26)$$

$$(3) \alpha = 0.05 \quad e = 0.02 \quad 1 - \alpha = 0.98$$

$$n = \left(\frac{0.05}{0.02} \right)^2 \times 2.326^2 = 33.8 \approx 34$$