

SUBJECT: Statistics EXAM Inter 2nd A/2022 CLASS: 2nd year

GROUP: _____

DATE: 05-12-22

(P)

[GENERAL INSTRUCTIONS FOR MARKING KEY]

Q.No-3 Award two marks for full correct definition of Part (i) to (xii)

(i) $C.F = \sqrt{\frac{N-n}{N-1}}$, $N=125$, $n=18$
 $= \sqrt{\frac{125-18}{125-1}}$
 $= \sqrt{\frac{107}{124}}$
 $= 0.9289 \text{ Ans}$ (2 marks)

(iv) $\sigma_{\bar{X}_1 - \bar{X}_2} = \sqrt{\frac{\sigma_1^2}{n_1} \left(\frac{N_1 - n_1}{N_1 - 1} \right) + \frac{\sigma_2^2}{n_2} \left(\frac{N_2 - n_2}{N_2 - 1} \right)}$ (2 marks)
 $= \sqrt{\frac{8/3}{2} \left(\frac{3-2}{3-1} \right) + \frac{5}{4/2} \left(\frac{4-2}{4-1} \right)}$
 $= \sqrt{\frac{2}{3} + \frac{5}{12}} \Rightarrow 1.0407 \text{ Ans}$

(viii) $Y = \pm \sqrt{(-1.6) \times (-0.4)}$ (2 marks)
 $= - 0.8 \text{ Ans}$

(ii) $N=50$, $n=25$ $\hat{p}=0.36$ Ans: As $\hat{p} = P \Rightarrow P=0.36$
 $\hat{p} = \frac{P \cdot n}{N} = \frac{(0.36)(50)}{25} = 0.096$ $q=1-P=0.64$ (2 marks)

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