

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHRAWAL

SUBJECT: Statistics EXAM Inter 2nd A/20 22 CLASS: 12th
GROUP: 5 DATE: 05-12-22

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Q. No. 2

(ix)

$$Z = \frac{\bar{X} - \mu}{\sigma/\sqrt{n}} \quad (2 \text{ marks})$$

$$0.62 = \frac{\bar{X} - 90}{16}$$

$$0.62 \times 16 + 90 = \bar{X}$$

$$\bar{X} = 99.92 \text{ Ans}$$

(x)

$$t = \frac{\bar{X} - \mu}{S/\sqrt{n}} \quad (2 \text{ marks})$$

$$= \frac{120 - 100}{34.75/\sqrt{25}}$$

$$= \frac{20}{6.95}$$

$$= 2.878 \text{ Ans}$$

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