

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHIALWAL

P-11/193

SUBJECT: Statistics EXAM Inter 2nd A/2022 CLASS: 2nd year
GROUP: _____ DATE: 05-12-22

(19)

GENERAL INSTRUCTIONS FOR MARKING KEY

Q.No-8(a)

X	Y	XY	X ²
0	1.0	0	0
1	1.8	1.8	1
2	3.3	6.6	4
3	4.5	13.5	9
4	6.3	25.2	16
10	16.9	47.1	30

(01 mark)

least Squares estimates, a and b

$$b = \frac{n\sum xy - (\sum x)(\sum y)}{n\sum x^2 - (\sum x)^2} \Rightarrow \frac{5(47.1) - (10)(16.9)}{5(30) - (10)^2}$$

$$= 1.33 \text{ Ans (01 mark)}$$

$$a = \frac{\sum y - b\sum x}{n} \Rightarrow \frac{16.9 - 1.33(10)}{5} = 0.72$$

$$\hat{y} = a + bx$$

$$= 0.72 + 1.33x$$

(01 mark)

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تم نے درج بالا اساتذہ پڑچ (انگریزی + عربی) اور برائے عمل طور پر چکی کر لی ہے۔ کسی قسم کی غلطی نہ ہے۔

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