

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHIALWAL

SUBJECT: _____ EXAM _____ 20 _____ CLASS: _____
 GROUP: _____ DATE: _____

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Q No 2 :-

Award two marks for correct definition

of following parts

(i), (ii), (iii), (iv), (v), (ix)

Part (vi) $\Sigma fD = 500$, $\Sigma f = 50$ $D = X - 50$ $A = 50$

$$\bar{X} = A + \frac{\Sigma fD}{\Sigma f} \quad (01 \text{ mark})$$

$$\bar{X} = 50 + \frac{500}{50} = 60 \quad (01 \text{ mark})$$

Part (vii) Compute median, -1, -2, 0, 3, 6, 4, 1, 5

Arrange the data

-2, -1, 0, 1, 3, 4, 5, 6 (1 mark)

$$\text{Median} = \frac{1+3}{2} = 2 \quad (1 \text{ mark})$$

Part (viii) Given $l = 28$, $f_m = 25$, $f_1 = 20$, $f_2 = 18$ $h = 7$

$$\text{Mode} = l + \frac{f_m - f_1}{(f_m - f_1) + (f_m - f_2)} \times h \quad (1 \text{ mark})$$

$$= 28 + \frac{(25 - 20)}{(25 - 20) + (25 - 18)} \times 7$$

$$= 28 + \frac{35}{12} = 30.91 \quad (1 \text{ mark})$$

PREPARED BY

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RE-CHECKED BY _____ نے درج بالا سوال پرچہ (انتخابی + معروضی) اور ہدایات کے حوالے سے مکمل طور پر تصدیق کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

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