Karnataka SSLC Exam, March - 2023 Mathematics (English Medium) Code: 81 - E

Solution:

Class	Frequency (f)
1 - 3	6
3 - 5	9
5 - 7	15
7 - 9	9
9 - 11	T
	n = 40

To find Mode Class Here, maximum frequency is 15.

∴ The mode class is 5 - 7.

:L = lower boundary point of mode class = 5

 $A \cdot f_{1} = \text{frequency of the mode class} = 15$

 $f_0 = \text{frequency of the preceding class} = 9$

 f_2 = frequency of the succeeding class = 9

 $\triangle c$ = class length of mode class = 2

$$Z = L + \left(\frac{f_1 - f_0}{2 \cdot f_1 - f_0 - f_2}\right) \cdot c$$

$$= 5 + \left(\frac{15 - 9}{2 \cdot 15 - 9 - 9}\right) \cdot 2$$

$$= 5 + \left(\frac{6}{12}\right) \cdot 2$$

$$= 5 + 1 = 6$$

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Liying Dong

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