

Q Calculating Mode for the following frequency Distribution.

<u>C.I</u>	<u>f</u>
0-10	3
10-20	5
20-30	7
30-40	10
40-50	12
50-60	<u>15</u>
60-70	12
70-80	6
80-90	2
90-100	8

frequency (f_0)
preceding the modal class

$$M_0 = L + i \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2} \right)$$

$$2f_1 - f_0 - f_2$$

frequency (f_2)
succeeding the modal class.

50-60 is the C.F. with highest frequency
15. Hence 50-60 is the
modal class.

$$= 50 + \frac{10(15-12)}{2(15)-12-12}$$

$$= 50 + \frac{10(3)}{30-24}$$

$$= 50 + \frac{30}{6}$$

$$= 50 + 5 = 55$$

$$m_0 = 55$$