

Q7 find the mean by step deviation method of the following data:-

C.I	f	X	$d = (x - A) / i$	$fd$
15-25	5	20	-3	-15
25-35	10	30	-2	-20
35-45	18	40	-1	-18
45-55	15	50	0	0
55-65	0	60	1	0
65-75	3	70	2	6

$$\bar{X} = A + \frac{\sum fd}{N} \times i$$

$$= 50 + \left( \frac{-47}{51} \times 10 \right)$$

$$= 50 + (-9.22)$$

$$= 50 - 9.22$$

$$\bar{X} = 40.78$$

$$\bar{X} = 40.78 \text{ An}$$