Que. No.	Sub. Que.	Model answers	Marks	Total Marks
6.	**(d)**	**Find mean deviation from median for the following data:**		

Class interval	**0−10**	**10−20**	**20−30**	**30−40**	**40−50**
Freauency	**5**	**8**	**15**	**16**	**6**

Ans.

Class	x_i	f_i	C.f.	$D_i = \|x_i - M\|$	f_iD_i
0−10	5	5	5	23	115
10−20	15	8	13 (c.f.)	13	104
20−30	25	15 (f_m)	28	3	45
30−40	35	16	44	7	112
40−50	45	6	50	17	102
		50			**478**

$\frac{N}{2} = \frac{50}{2} = 25$ $\therefore Median\ class = 20 - 30$ — 1

C=Class width =10

$Median = L_1 + \left(\frac{\frac{N}{2} - c.f}{f_m}\right) \times c$ =28 — 1

M.D.$= \frac{\sum f_i D_i}{N}$

$= \frac{478}{50}$ — 1

$= 9.56$ — 1

Note : Please refer above method to assess Q.6 (d) of 17104.

04