

Q.1) Arranging the data in an ascending order.

14, 14, 14, 14, 17, 18, 18, 22, 23, 25, 28

It can be observed that 14 has the highest frequency, i.e. 4, in the given data. Therefore, mode of the given data is 14.

5) Salary (in Rs)	No. of workers	fidi
3000	16	3000 × 16 = 48000
4000	12	4000 × 12 = 48000
5000	10	5000 × 10 = 50000
6000	8	6000 × 8 = 48000
7000	6	7000 × 6 = 42000
8000	4	8000 × 4 = 32000
9000	3	9000 × 3 = 27000
10000	1	10000 × 1 = 10000
Total	$\Sigma f_i = 60$	$\Sigma f_i x_i = 305000$

$$\text{Mean} = \frac{\Sigma f_i x_i}{\Sigma f_i}$$

$$\begin{aligned} \text{Mean Salary} &= \frac{305000}{60} \\ &= 5083.33 \end{aligned}$$