## **Practice Set-1**

# Odd 25-26

# Probability and Statistics[C1UC322T]

#### Mean

1.

The marks of 50 students are distributed as follows:

Find the mean marks using the **assumed mean method**.

2.

The mean of the following data is 25. Find the missing frequency.

3.

Two groups of students have the following mean marks:

- Group A: 30 students, mean = 65
- Group B: 20 students, mean = 75

Find the combined mean.

**4.** The marks obtained by 50 students in a test are given below:

Find the mean marks using the Direct Method.

**5**. The weekly wages of workers in a factory are given below:

```
| Wages (₹) | 0-100 | 100-200 | 200-300 | 300-400 | 400-500 |
|-----|
| Workers | 5 | 15 | 25 | 30 | 25 |
```

Find the mean using the **Step-Deviation Method**.

#### Median

6.

Find the median from the following frequency distribution:

7.

The median of the following data is 46. Find the missing frequency xxx.

```
| Class Interval | 0–10 | 10–20 | 20–30 | 30–40 | 40–50 | 50–60 | 
|------| ------ | Frequency | 5 | 7 | 10 | xxx | 6 | 3 |
```

8.

The marks obtained by 100 students in an exam are given below:

Find the median marks using the cumulative frequency method.

## Mode

9.

Find the mode from the following distribution:

```
| Class Interval | 0–10 | 10–20 | 20–30 | 30–40 | 40–50 | 
|-----| Frequency | 6 | 11 | 15 | 8 | 5 |
```

#### 10.

The marks obtained by students are:

```
| Marks | 0–10 | 10–20 | 20–30 | 30–40 | 40–50 |
|-----|----|-----|----|
| No. of Students | 2 | 5 | 12 | 15 | 6 |
```

Find the mode.

### **Mixed Higher-Order**

#### 11.

The mean of 10 observations is 15. If one observation is wrongly noted as 25 instead of 35, find the correct mean.

#### 12.

The following data shows the daily wages of workers in a factory:

Find the mean, median, and mode of the data.