The marks obtained by 17 students in an examination are given below.

1. Represent the data in the form of a frequency distribution table in exclusive form taking class size 8.

50 69 71 79 46 79 64 65 71 77 52 59 75 65 74 49 62

(i)

| Marks | 46 - 54 | 54 - 62 | 62 - 70 | 70 - 78 | 78 - 86 |
|---|---|---|---|---|---|
| No. of Students | 4 | 5 | 1 | 5 | 2 |

(ii)

| Marks | 46 - 54 | 54 - 62 | 62 - 70 | 70 - 78 | 78 - 86 |
|---|---|---|---|---|---|
| No. of Students | 4 | 1 | 5 | 5 | 2 |

(iii)

| Marks | 46 - 54 | 54 - 62 | 62 - 70 | 70 - 78 | 78 - 86 |
|---|---|---|---|---|---|
| No. of Students | 4 | 1 | 8 | 5 | 2 |

(iv)

| Marks | 46 - 54 | 54 - 62 | 62 - 70 | 70 - 78 | 78 - 86 |
|---|---|---|---|---|---|
| No. of Students | 4 | 3 | 5 | 5 | 2 |

(v)

| Marks | 46 - 54 | 54 - 62 | 62 - 70 | 70 - 78 | 78 - 86 |
|---|---|---|---|---|---|
| No. of Students | 4 | 2 | 5 | 5 | 1 |

The marks obtained by 20 students in an examination are given below.

2. Represent the data in the form of a frequency distribution table in exclusive form taking class size 6.

73 46 74 59 68 67 45 80 56 77 61 51 73 78 74 69 59 61 62 63

(i)

| Marks | 45 - 51 | 51 - 57 | 57 - 63 | 63 - 69 | 69 - 75 | 75 - 81 |
|---|---|---|---|---|---|---|
| No. of Students | 2 | 2 | 5 | 3 | 5 | 3 |

(ii)

| Marks | 45 - 51 | 51 - 57 | 57 - 63 | 63 - 69 | 69 - 75 | 75 - 81 |
|---|---|---|---|---|---|---|
| No. of Students | 2 | 5 | 2 | 3 | 5 | 3 |

(iii)

| Marks | 45 - 51 | 51 - 57 | 57 - 63 | 63 - 69 | 69 - 75 | 75 - 81 |
|---|---|---|---|---|---|---|
| No. of Students | 2 | 3 | 5 | 3 | 5 | 2 |

(iv)

| Marks | 45 - 51 | 51 - 57 | 57 - 63 | 63 - 69 | 69 - 75 | 75 - 81 |
|---|---|---|---|---|---|---|
| No. of Students | 2 | 2 | 3 | 3 | 5 | 3 |

(v)

| Marks | 45 - 51 | 51 - 57 | 57 - 63 | 63 - 69 | 69 - 75 | 75 - 81 |
|---|---|---|---|---|---|---|
| No. of Students | 2 | 2 | 5 | 8 | 5 | 3 |

3. Construct a frequency table in exclusive form for the following ages (in years) of 17 students, taking class size 3.

19 10 18 13 13 11 17 19 21 22 17 22 15 13 16 20 20

(i)

| Age (in years) | 10 - 13 | 13 - 16 | 16 - 19 | 19 - 22 | 22 - 25 |
|---|---|---|---|---|---|
| No. of Students | 2 | 9 | 4 | 5 | 2 |

(ii)

| Age (in years) | 10 - 13 | 13 - 16 | 16 - 19 | 19 - 22 | 22 - 25 |
|---|---|---|---|---|---|
| No. of Students | 2 | 2 | 4 | 5 | 4 |

(iii)

| Age (in years) | 10 - 13 | 13 - 16 | 16 - 19 | 19 - 22 | 22 - 25 |
|---|---|---|---|---|---|
| No. of Students | 2 | 4 | 4 | 5 | 2 |

(iv)

| Age (in years) | 10 - 13 | 13 - 16 | 16 - 19 | 19 - 22 | 22 - 25 |
|---|---|---|---|---|---|
| No. of Students | 2 | 4 | 9 | 5 | 2 |

The daily wages (in rupees) of 20 workers in a factory are given below.

4. Represent the data in the form of a frequency distribution in exclusive form taking class size 30.

260 226 264 251 205 276 242 240 215 295 203 255 272 222 216 278 289 258 254 241

(i)

| **Wages (in rupees)** | 203 - 233 | 233 - 263 | 263 - 293 | 293 - 323 |
|---|---|---|---|---|
| **No. of Workers** | 6 | 5 | 8 | 1 |

(ii)

| **Wages (in rupees)** | 203 - 233 | 233 - 263 | 263 - 293 | 293 - 323 |
|---|---|---|---|---|
| **No. of Workers** | 6 | 8 | 5 | 1 |

(iii)

| **Wages (in rupees)** | 203 - 233 | 233 - 263 | 263 - 293 | 293 - 323 |
|---|---|---|---|---|
| **No. of Workers** | 6 | 4 | 5 | 1 |

(iv)

| **Wages (in rupees)** | 203 - 233 | 233 - 263 | 263 - 293 | 293 - 323 |
|---|---|---|---|---|
| **No. of Workers** | 1 | 8 | 5 | 6 |

(v)

| **Wages (in rupees)** | 203 - 233 | 233 - 263 | 263 - 293 | 293 - 323 |
|---|---|---|---|---|
| **No. of Workers** | 6 | 8 | 1 | 1 |

5. The weights (in gm) of 15 fruits are as follows. Form the grouped frequency table in exclusive form by taking class size 40. 229 249 381 236 352 352 204 393 354 331 393 256 213 322 295

(i)

| **Weight (in gm)** | 204 - 244 | 244 - 284 | 284 - 324 | 324 - 364 | 364 - 404 |
|---|---|---|---|---|---|
| **No. of Fruits** | 4 | 2 | 2 | 4 | 3 |

(ii)

| **Weight (in gm)** | 204 - 244 | 244 - 284 | 284 - 324 | 324 - 364 | 364 - 404 |
|---|---|---|---|---|---|
| **No. of Fruits** | 4 | 3 | 2 | 4 | 2 |

(iii)

| **Weight (in gm)** | 204 - 244 | 244 - 284 | 284 - 324 | 324 - 364 | 364 - 404 |
|---|---|---|---|---|---|
| **No. of Fruits** | 4 | 2 | 7 | 4 | 3 |

(iv)

| **Weight (in gm)** | 204 - 244 | 244 - 284 | 284 - 324 | 324 - 364 | 364 - 404 |
|---|---|---|---|---|---|
| **No. of Fruits** | 4 | 4 | 2 | 4 | 3 |

6. Given the sample data, prepare the class interval table in exclusive form with 5 as min value and a class size of 10.

5 27 43 11 26 30 32 41 11 43 43 19 32 18 16 45

(i)

| **Class-Interval** | 5 - 15 | 15 - 25 | 25 - 35 | 35 - 45 | 45 - 55 |
|---|---|---|---|---|---|
| **Frequency** | 3 | 1 | 5 | 4 | 3 |

(ii)

| **Class-Interval** | 5 - 15 | 15 - 25 | 25 - 35 | 35 - 45 | 45 - 55 |
|---|---|---|---|---|---|
| **Frequency** | 3 | 5 | 3 | 4 | 1 |

(iii)

| **Class-Interval** | 5 - 15 | 15 - 25 | 25 - 35 | 35 - 45 | 45 - 55 |
|---|---|---|---|---|---|
| **Frequency** | 3 | 7 | 5 | 4 | 1 |

(iv)

| **Class-Interval** | 5 - 14 | 15 - 24 | 25 - 34 | 35 - 44 | 45 - 54 |
|---|---|---|---|---|---|
| **Frequency** | 3 | 3 | 5 | 4 | 1 |

(v)

| **Class-Interval** | 5 - 15 | 15 - 25 | 25 - 35 | 35 - 45 | 45 - 55 |
|---|---|---|---|---|---|
| **Frequency** | 3 | 3 | 5 | 4 | 1 |

## Assignment Key

| | | | | | |
|---|---|---|---|---|---|
| 1) (ii) | 2) (i) | 3) (iii) | 4) (ii) | 5) (i) | 6) (v) |