PRACTICAL NUMBER 1

**Presentation of discrete data through frequency table, and different types of charts (Bar, column, Pie Charts)**

**Question 1:** Draw frequency table for the following data and plot bar graph, column graph and pie chart:

**1, 2, 2,3,2,4,3,1,4,2,4,3,1,5,5,5,6,7,8,7,6,7,8,7,8,9,9,9,10,9,10,9,10,8,9,7**

***The frequency table for the given data is:***

|  |  |
| --- | --- |
| X(MARKS) | F(NUMBER OF STUDENTS) |
| 1 | 3 |
| 2 | 4 |
| 3 | 3 |
| 4 | 3 |
| 5 | 3 |
| 6 | 2 |
| 7 | 5 |
| 8 | 4 |
| 9 | 6 |
| 11 | 3 |

***Bar Graph:***

***Column Graph:***

***Pie Chart:***

***Interpretation:***

17 % of the students of the class scored 9 marks which is the mode.

**Question 2**: Following data gives the salary (per day) of the employees of a firm. Draw the frequency table and plot its bar graph, column graph, and pie chart:

**100, 130, 100, 140, 130, 150, 250, 140, 160, 250, 200, 180, 160, 140, 150, 200, 200, 150, 180, 180, 250, 225, 225, 230, 230, 250, 110, 130, 140, 150, 140, 110, 180, 180, 170, 160, 200, 225, 250, 200, 250, 140, 160, 140, 170, 180, 190, 200, 250**

***The frequency table of the given data is:***

|  |  |
| --- | --- |
| SALARY(PER DAY) | NO OF EMPOLYESS |
| 100 | 2 |
| 110 | 2 |
| 130 | 3 |
| 140 | 7 |
| 150 | 4 |
| 160 | 4 |
| 170 | 2 |
| 180 | 6 |
| 190 | 1 |
| 200 | 6 |
| 210 | 3 |
| 230 | 2 |
| 250 | 7 |

***The bar graph:***

***The column graph:***

***Pie chart:***

***Interpretation:***

15% of the employees receive rupees 140 and rupees 250 salary per day. Since the data has 2 possible modes. Hence it is bimodal distribution.