# Assignment – II

**(Frequency Distributions)**

**Deadline: 20th Aug**

1. Number of AIDS deaths for males and females for the years 1989 through 1995 is given in the following table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
| Males | 23742 | 26752 | 30725 | 34072 | 35551 | 37369 | 26375 |
| Females | 2613 | 3182 | 3926 | 4741 | 5526 | 6615 | 4881 |

1. Graph the data using two line graphs
2. Construct bar charts
3. Construct component part graph
4. Express the yearly deaths due to AIDs for males and females as percentages of the total deaths due to AIDs. Graph these percentages using percentage component graph
5. Graph the percentages from (d) as pie graph.

2. Twenty-five femur lengths of stem mothers of the aphid Pemphigus populi-tranversus are given in the following table (measurements are in mm x 10-1):

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Original Measurements

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3.8 3.6 4.3 3.5 4.3

3.3 4.3 3.9 4.3 3.8

3.9 4.4 3.8 4.7 3.6

4.1 4.4 4.5 3.6 3.8

4.4 4.1 3.6 4.2 3.9

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Group the measurements into a frequency distribution. Obtain the histogram and the frequency polygon for the corresponding distribution.

3. Obtain (a) a cumulative frequency distribution, (b) a percentage cumulative distribution, (c) an ogive, and (d) a percentage ogive for the femur-length frequency distribution in Prob. 2.