

**ANSWER ALL QUESTIONS**

Q1-

**49 Marks**

In a certain university, the mean age (in years) of the employees in a number of colleges is given as below:

~~30.6, 29.5, 28.8, 28.3, 29.2, 30, 29.6, 29.4, 28.7, 29.6, 29.7, 28.9, 28.6, 31.7, 28.9, 31.5~~

For the data given:

- Find the mean.  $29.5$
- Find the median.
- Find the mode.
- Find the range.
- Find the Inter-Quartile Range (IQR).
- Find the standard deviation and variance.
- Develop a stem-and-leaf plot.

$29.3625$

16



Q2-

For the following data:

42, 22, 55, 18, 50, 10, 33, 29, 17, 29, 29, 27, 34, 15, 40, 42, 40, 41, 35, 27, 44, 31, 38, 19, 54, 55,  
38, 19, 20, 30, 42, 59, 15, 19, 27, 23, 40, 32, 28, 51.

- Prepare a frequency distribution table.
- Construct an appropriate frequency distribution graph.

Best wishes

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