**DBB2102 Quantitative Techniques for Management**

**Assignment Set – 1**

1. Describe function of Statistics briefly.

2. Explain Classification of data and all its types.

3a. Calculate the mean of the following frequency distribution:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Marks X | 10 | 20 | 30 | 40 | 50 | 60 |
| Frequency f | 8 | 12 | 20 | 10 | 7 | 3 |

b. Find Quartile one Q1 and Quartile three Q3 of the following series:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Size: | 4 | 4.5 |  | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 |
| Frequency: | 10 | 18 |  | 22 | 25 | 40 | 15 | 10 | 8 | 7 |

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**Assignment Set – 2**

1. Explain coefficient of correlation. Discuss the methods of calculating coefficient of correlation.

2. Describe components of time series analysis.

3a. Construct an index number for 2015 taking 2014 as base:

|  |  |  |
| --- | --- | --- |
| Commodity | Price in 2014 | Price in 2015 |
| A | 90 | 95 |
| B | 40 | 60 |
| C | 90 | 110 |
| D | 30 | 35 |

b. Write Short note:

(i) Parameter

(ii) Estimator

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