

Q.4 Explain various types of graphs. Mention their methods & demerits.

Q.5 Find mean, median and mode of following data

X

|                |       |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                | 32-36 | 36-40 | 40-44 | 44-48 | 48-52 | 52-56 | 56-60 | 60-64 |
| No. of student | 10    | 37    | 65    | 80    | 51    | 35    | 18    | 4     |

Q.6 Find out quartile deviation and the coefficient of quartile deviation of the following data:-

|      |    |    |     |     |     |    |    |
|------|----|----|-----|-----|-----|----|----|
| Age  | 20 | 30 | 40  | 50  | 60  | 70 | 80 |
| Mem. | 3  | 61 | 132 | 153 | 140 | 31 | 3  |

Q.7 Calculate range, standard deviation and coefficient of variation in respect of the marks obtain by ten students given below

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| 50 | 55 | 57 | 59 | 54 | 61 | 64 | 59 | 59 | 56 |
|----|----|----|----|----|----|----|----|----|----|

No. of Printed Pages : 4

124115/093016

Roll No. ....

**1<sup>st</sup> Sem. / FAA/OMCA**

**Subject : Business Statistics - I**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- Formula of co-efficient of variation
  - Quartile Deviation
  - Two uses of primary data
  - Discrete Series
  - Frequency Curve.
  - Commulative Frequency
  - Central Tendency
  - Less than ogive
  - Dispersion
  - Questionnaire

(260)

(4)

124115/093016

(1)

124115/093016

- k) Mid value
- l) Translation of data
- m) Inclusive continuous series
- n) Unpublished Sources
- o) What is false base line.
- p) Formula of absolute measure of range
- q) Statistics in singular sense
- r) Quartile deviation.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) How would you calculate mode by inspection.
  - ii) What is weighted arithmetic mean?
  - iii) Demerits of pictogram.
  - iv) Define the term statistics.
  - v) Steps to calculating median in discrete series.

(2) 124115/093016

- vi) Requisite of a good average.
- vii) Relationship between standard deviation and variance.
- viii) Precautions for wring secondary data
- ix) Steps for constructing of pie diagram.
- x) Significance of measuring variations.
- xi) Statistics is science or art.
- xii) Need of multiple bar diagram.
- xiii) Define the quantitative data.
- xiv) Why we calculate coefficient of range?
- xv) Explain concept of dispersion. What are various methods of measuring dispersions?

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Discuss the various measure of central tendency.

(3) 124115/093016