

F.Y.B.SC. SEM – I (2014 Course) : WINTER - 2018
SUBJECT: STATISTICS: DESCRIPTIVE STATISTICS – I

Day: Wednesday
Date: 17/10/2018

W-2018-0776

Time: 12.00 NOON TO 02.00 PM
Max. Marks: 40

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of logarithmic table and pocket **CALCULATOR** is allowed.

Q.1 Attempt any **TWO** of the following: **(10)**

- a) Describe the scope of statistics in Industry and Insurance.
- b) Draw less than cumulative frequency Curve for the following frequency distribution. Also find median graphically.

| Class | 30-60 | 60-90 | 90-120 | 120-150 | 150-180 | 180-210 |
|-----------|-------|-------|--------|---------|---------|---------|
| Frequency | 42 | 74 | 102 | 98 | 42 | 26 |

- c) Obtain mean and mode for the following frequency distribution.

| Class | 05-15 | 15-25 | 25-35 | 35-45 | 45-55 |
|-----------------|-------|-------|-------|-------|-------|
| No. of students | 30 | 64 | 60 | 70 | 40 |

Q.2 Attempt any **TWO** of the following: **(10)**

- a) Write notes on Simple random sampling with replacement (SRSWR) and simple random sampling without replacement (SRSWOR).
- b) Obtain quartile deviation (Q. D.) for the following frequency distribution.

| Distance (in kms) | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 |
|-------------------|-------|-------|-------|-------|-------|
| No. of cars | 10 | 17 | 23 | 40 | 10 |

- c) The following data pertain to two workers doing the same job in a factory.

| | Worker A | Worker B |
|-----------------------------|----------|----------|
| Mean time to complete a job | 40 | 42 |
| Standard deviation | 8 | 6 |

Which is more consistent worker? Why?

P. T. O.

