**S.D.E.**

**M.B.A. (I.T.) SEM-II (2013 COURSE) : WINTER - 2017**

**SUBJECT: DATA ANALYSIS FOR MANAGEMENT**

Day: **Saturday** Time: **02.00 P.M. TO 05.00 P.M.**

Date: **16/12/2017** Max. Marks: 70

**W-2017-4330**

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**N.B.:**

1) Attempt any **FOUR** questions from Section –I and any **TWO** questions from Section –II.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in the **SEPARATE** answer book.
4) Use of non-programmable **CALCULATOR** is allowed.
5) Graph papers will be provide on request.

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## SECTION-I

**Q.1** Explain applications of data management in brief. **(10)**

**Q.2** Draw less than and more than ogives from the data given below: **(10)**

| Profit Rs. Lakhs | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 |
|---|---|---|---|---|---|---|---|---|---|
| No of Companies | 6 | 8 | 12 | 18 | 25 | 16 | 8 | 5 | 2 |

**Q.3** Calculate the coefficient of correlation between X and Y from the following data: **(10)**

| X | 78 | 89 | 99 | 60 | 59 | 79 | 68 | 61 |
|---|---|---|---|---|---|---|---|---|
| Y | 125 | 137 | 156 | 112 | 107 | 136 | 123 | 108 |

**Q.4** Torch batteries of a certain make have an average life of 50 hours with a standard deviation of 3 hours. How many batteries in an order of 1000 may be expected to last: **(10)**

i) Longer than 55 hours
ii) Less than 44 hours

Assuming Normal distribution.

**Q.5** Write short notes on any **TWO** of the following: **(10)**

**a)** Survey method
**b)** DBMS
**c)** Data Summarization

**Q.6** Discuss in brief the Time Series Analysis. **(10)**

**P. T. O.**

## SECTION-II

**Q.7** Calculate mean, median and mode for the following data: **(15)**

| Marks (below) | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
|---|---|---|---|---|---|---|---|---|
| No. of Students | 5 | 20 | 40 | 65 | 115 | 190 | 225 | 250 |

**Q.8** Find coefficient of variation for the following data and state which batsman is more consistent. **(15)**

| Score of A | 6 | 73 | 7 | 119 | 36 |
|---|---|---|---|---|---|
| Score of B | 12 | 42 | 76 | 51 | 49 |

**Q.9** An insurance company receives on an average 2 telephone calls every 15 minutes find the probability that, **(15)**

i) No calls be received in 30 minutes interval

ii) 3 calls be received in 30 minutes interval.

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