Code: 17E00105

# MBA I Semester Regular Examinations December/January 2017/2018 <br> STATISTICS FOR MANAGERS <br> (For students admitted in 2017 only) 

Time: 3 hours
Max. Marks: 60

> SECTION - A
> (Answer the following: $(05 \times 10=50$ Marks $)$
*****
1 Explain the measures of central tendency for business decision making.
OR
Find standard deviation from the following data:

| Values | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Frequency | 2 | 7 | 11 | 15 | 18 | 4 | 1 |

Calculate the coefficient of correlation of the following data:

| $x$ | 2 | 3 | 4 | 5 | 6 |
| :---: | ---: | ---: | ---: | ---: | ---: |
| $y$ | 7 | 9 | 10 | 14 | 15 |

OR
4 Compute rank correlation from the following table.

| $x$ | 415 | 434 | 420 | 430 | 424 | 428 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- |
| $y$ | 330 | 332 | 328 | 331 | 327 | 325 |

Difference between binomial and Poisson distribution.
OR

## Case Study:

The 3 samples given below have been obtained from a normal population with equal variance. Test the hypothesis that sample means are equal.

| A | 8 | 10 | 7 | 14 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B | 7 | 5 | 10 | 9 | 9 |
| C | 12 | 9 | 13 | 12 | 14 |

