Total No. of Questions: 15

MBA / MBA(IB) (2012 & onward) (Sem. – 1)

QUANTITATIVE TECHNIQUES

M Code: 49004

Subject Code: MBA-104

Paper ID: [C0104]

Time: 3 Hrs. **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATES:

1. **SECTION-A contains SIX questions carrying FIVE marks each and students have to attempt any FOUR questions.**
2. **SECTION-B consists of FOUR Subsections : B.1, B.2, B.3 & B.4. Each Subsection contains TWO questions each carrying EIGHT marks each and students have to attempt any ONE question from each Subsection.**
3. **SECTION-C is COMPULSORY, carrying EIGHT marks.**

SECTION A

1. Discuss the different sources of data collection.
2. Discuss and differentiate between census and sampling.
3. What is meant by sampling errors? Also explain its relationship with sample size.
4. Comment on the association between correlation and regression.
5. What is meant by splicing? Discuss its relevance.
6. Explain the terms: a) Random variables b) Expected value.

SECTION B

Subsection B.1

7. Discuss the applications of statistics in managerial decision making, giving examples. Also comment on the limitations of statistics.
8. Find out the coefficient of variance of the 2 series given below and comment on their consistency:

X	5	11	21	19	25	22
Y	112	126	131	142	130	129

Subsection B.2

9. Discuss and differentiate between the different types of sampling methods.

10. Explain what is meant by techniques of association of attributes. Also comment on the tests of significance for small samples.

Subsection B.3

11. Find out the correlation between the 2 variables given below:

X	33	41	52	63	42
Y	11	18	14	26	19

12. Explain the various methods of construction on Index numbers. Also comment on their tests of consistency.

Subsection B.4

13. What is meant by Time series? Explain the different techniques of times series analysis.

14. What is the difference between classical approach and subjective approach to probability? Also explain the applications of Bayes theorem to management.

SECTION C

15. Given the following data, using regression analysis, find the regressional equations of **X** on **Y** and **Y** on **X** and consequently find the value of **X** when **Y**=275; and also find the value of **Y** when **X**=50.

X	22	29	36	44	38
Y	211	228	239	251	246