M.B.A. DEGREE EXAMINATION — JANUARY 2015.

First Year

QUANTITATIVE TECHNIQUES

Time: 3 hours Maximum marks: 75

PART A — $(3 \times 5 = 15 \text{ marks})$

Answer any THREE questions.

All questions carry equal marks.

- 1. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 3 & 2 \\ 4 & 6 \\ 4 & 8 \end{bmatrix}$ what is $A \times B$ and $B \times A$?
- 2. What are the properties of binomial distribution?
- 3. What are the measures of central tendency?
- 4. What are the assumptions in Break-Even Analysis?
- 5. What are the applications of Integration?

PART B — $(4 \times 15 = 60 \text{ marks})$

Answer any FOUR questions.

All questions carry equal marks.

- 6. What are the techniques used for analysing data?
- 7. Calculate the Mean, Median and Mode from the following data:

- 8. List out the applications of Probability.
- 9. Explain the types of probability sampling.
- 10. Compute the regression coefficient for the data given below:

x: 12 13 14 15 16 17 18 y: 8 16 22 31 36 40 52

- 11. Discuss the applications of index numbers.
- 12. Explain the measures of deviation with examples.

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