

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)**



उत्तराखंड मुक्त विश्वविद्यालय हल्द्वानी (नैनीताल)

**Programme Name-MBA-First Semester/DIM-First Semester**

**Programme Code- MBA-13 /DIM-10**

**Course Name-Quantitative Techniques in Management**

**Course Code- CP1004**

**Maximum Marks-40**

**Session -2015-16, Summer**

**Last Date of Submission: 31<sup>st</sup> January, 2016**

**Section-A**

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

**Discuss the following (1-8) –**

1. Binomial Distribution.
2. Standard Error.
3. Hungarian method for solving an assignment problem.
4. Regression Analysis.
5. Differentiate between Biserial and Point Biserial Correlation.
6. Main characteristics of Normal Probability Curve.
7. Limitations of Linear Programming.
8. Compute the value of chi-square for the following data on the basis of hypothesis of equal distribution:

Response	Agreed	Neutral	Disagreed	Total
Observed Frequency	105	85	110	300

**Section-B**

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answer 02 questions only.

1. What do you mean by hypothesis? Describe the various types of them. Explain Type I and Type II error in context of hypothesis testing.

2. What do you mean by Modified Distribution Method (MODI Method)? Explain with the help of an example.

3. Calculate t-value for the following data:

X	30	25	33	19	20	18	26	27	18	12	14	22
Y	28	26	19	15	20	11	20	13				

4. Compute the coefficient of correlation by Karl Pearson's method for the following data:

A	8	5	6	2	4
B	3	12	9	1	5

