Reg. No.: .....

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Q.P. Code: [07 DMB 06]

M.B.A. DEGREE EXAMINATION, DECEMBER 2010. (For the candidates admitted from 2007 onwards)

First Year

QUANTITATIVE TECHNIQUES FOR MANAGEMENT

Maximum: 100 marks

Time: Three hours

Answer any FIVE questions.

All questions carry equal marks.  $(5 \times 20 = 100)$ 

- examples. Explain deterministic and probabilistic model with
- 2 with examples. What is a trans-ship model? Explain how is it different from transportation model. Illustrate it
- 3 structure of model M/M/1 for infinite population. What is a waiting line model? Discuss the
- Illustrate with an example, how will you compute EOQ with price breaks.

 Discuss the various probability distributions with their characteristics.

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Solve the following L.P.P. using simplex method

For the following table find the optimal assignment schedule.

Cities

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 Solve the following game graphically and find the value of the game

Players B

B<sub>1</sub> B<sub>2</sub> B<sub>3</sub>

Player A A<sub>1</sub>  $\begin{pmatrix} 8 & 4 & -2 \end{pmatrix}$   $A_2 \begin{pmatrix} -2 & -1 & 3 \end{pmatrix}$ 

Maximum z = 10x + 20y

Subject to  $3x + 5y \le 90$ 

 $6x + 3y \le 72$ 

 $x, y \ge 0$ .

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