

**MBA**  
**(SEM II) THEORY EXAMINATION 2021-22**  
**QUANTITATIVE TECHNIQUES FOR MANAGERS**

Time: 3 Hours

Total Marks: 100

Notes:

- Attempt all Sections and Assume any missing data.
- Appropriate marks are allotted in each question, answer accordingly.

SECTION-A		Attempt ALL of the following Questions in brief	Marks (10X2=20)	CG
Q1(a)	What do you mean by Operations Research?			
Q1(b)	What do you mean by states of nature?			
Q1(c)	What is duality?			
Q1(d)	What is Basic Feasible Solution of $m \times n$ transportation problem?			
Q1(e)	What do you mean by Unbalanced Assignment Problem?			
Q1(f)	What do you understand by Two Person Zero Sum Game?			
Q1(g)	In a sequencing problem, what is the meaning of total elapsed time?			
Q1(h)	What do you mean by Queue Discipline?			
Q1(i)	What do you mean by Gradual Failure and Sudden failure?			
Q1(j)	What is critical path in a network?			

SECTION-B		Attempt ANY ONE of the following:	Marks (2X15=30)	CG																																											
Q2(a)	<p>i) Solve the following LPP.</p> $\text{Max } Z = 2x_1 + 5x_2 + 7x_3$ <p>Subject to</p> $3x_1 + 2x_2 + 4x_3 \leq 100$ $x_1 + 4x_2 + 2x_3 \leq 100$ $x_1 + x_2 + 3x_3 \leq 100$ <p>Where <math>x_1, x_2, x_3 \geq 0</math></p> <p>ii) A company is faced with the problem of assigning five jobs to five machines; each job must be done on only one machine, the cost of processing each job on each machine is given below (in Rs.) Find out the optimal assignments.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="5">Machines</th> </tr> <tr> <th>M<sub>1</sub></th> <th>M<sub>2</sub></th> <th>M<sub>3</sub></th> <th>M<sub>4</sub></th> <th>M<sub>5</sub></th> </tr> </thead> <tbody> <tr> <th rowspan="5">Jobs</th> <th>J<sub>1</sub></th> <td>7</td> <td>5</td> <td>9</td> <td>8</td> <td>11</td> </tr> <tr> <th>J<sub>2</sub></th> <td>9</td> <td>12</td> <td>7</td> <td>11</td> <td>10</td> </tr> <tr> <th>J<sub>3</sub></th> <td>8</td> <td>5</td> <td>3</td> <td>6</td> <td>9</td> </tr> <tr> <th>J<sub>4</sub></th> <td>7</td> <td>3</td> <td>6</td> <td>9</td> <td>5</td> </tr> <tr> <th>J<sub>5</sub></th> <td>4</td> <td>6</td> <td>7</td> <td>5</td> <td>11</td> </tr> </tbody> </table>			Machines					M <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>	M <sub>4</sub>	M <sub>5</sub>	Jobs	J <sub>1</sub>	7	5	9	8	11	J <sub>2</sub>	9	12	7	11	10	J <sub>3</sub>	8	5	3	6	9	J <sub>4</sub>	7	3	6	9	5	J <sub>5</sub>	4	6	7	5	11			
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	J <sub>3</sub>	8	5	3	6	9																																									
	J <sub>4</sub>	7	3	6	9	5																																									
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Q2(b)	<p>Phrase of the particular case (Example for Questions related with given phase in Sub Parts)</p> <p>i) A Company has four plants P<sub>1</sub>, P<sub>2</sub>, P<sub>3</sub>, P<sub>4</sub>, from which it supplies to three markets M<sub>1</sub>, M<sub>2</sub>, M<sub>3</sub>. Determine the optional transportation plan from the following data, given the plant to market shifting costs, quantities available at each plant and quantities required at each market.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Market</th> <th>Plant</th> <th>Required at</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Market	Plant	Required at																																											
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## **Table of Contents 2nd Sem Paper**

1. Understanding the eBook 2nd Sem Paper
  - The Rise of Digital Reading 2nd Sem Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Sem Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 2nd Sem Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Sem Paper
  - Personalized Recommendations
  - 2nd Sem Paper User Reviews and Ratings
  - 2nd Sem Paper and Bestseller Lists
5. Accessing 2nd Sem Paper Free and Paid eBooks
  - 2nd Sem Paper Public Domain eBooks

- 2nd Sem Paper eBook Subscription Services
- 2nd Sem Paper Budget-Friendly Options
- 6. Navigating 2nd Sem Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - 2nd Sem Paper Compatibility with Devices
  - 2nd Sem Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Sem Paper
  - Highlighting and Note-Taking 2nd Sem Paper
  - Interactive Elements 2nd Sem Paper
- 8. Staying Engaged with 2nd Sem Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Sem Paper
- 9. Balancing eBooks and Physical Books 2nd Sem Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Sem Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Sem Paper
  - Setting Reading Goals 2nd Sem Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Sem Paper
  - Fact-Checking eBook Content of 2nd Sem Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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