

**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	Marked (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 :	Marked (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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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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**Guðbrandur Vigfússon, Frederick York  
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