

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> <p>Max $Z = 2x_1 + 5x_2 + 7x_3$</p> <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 $x_1, x_2, x_3 \geq 0$</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>M₁</th> <th>M₂</th> <th>M₃</th> <th>M₄</th> <th>M₅</th> </tr> </thead> <tbody> <tr> <th rowspan="5">Jobs</th> <th>J₁</th> <td>7</td> <td>5</td> <td>9</td> <td>8</td> <td>11</td> </tr> <tr> <th>J₂</th> <td>9</td> <td>12</td> <td>7</td> <td>11</td> <td>10</td> </tr> <tr> <th>J₃</th> <td>8</td> <td>5</td> <td>3</td> <td>6</td> <td>9</td> </tr> <tr> <th>J₄</th> <td>7</td> <td>3</td> <td>6</td> <td>9</td> <td>5</td> </tr> <tr> <th>J₅</th> <td>4</td> <td>6</td> <td>7</td> <td>5</td> <td>11</td> </tr> </tbody> </table>			Machines					M ₁	M ₂	M ₃	M ₄	M ₅	Jobs	J ₁	7	5	9	8	11	J ₂	9	12	7	11	10	J ₃	8	5	3	6	9	J ₄	7	3	6	9	5	J ₅	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 P₁, P₂, P₃, P₄, from which it supplies to three markets M₁, M₂, M₃. 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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2nd Sem Paper

David Kirk



2nd Sem Paper:

Announcement of Courses New York State College of Forestry at Syracuse University, 1930 Beacon RCET Edition
2010 Students of RCET, *Accident Prevention in School Shops* James K. Shallenberger, 1926 *Catalogue* University of
Pittsburgh, 1924 **Bulletin of the School of Economics** University of Pittsburgh, University of Pittsburgh. School of
Economics, 1909 **Official Gazette** Philippines, 1963 **Announcement of the School of Education ...** University of
Pittsburgh. School of Education, 1921 Metaheuristics Algorithm and Optimization of Engineering and Complex Systems
R., Thanigaivelan, M., Suchithra, S., Kaliappan, T., Mothilal, 2024-07-23 In the field of engineering optimization and decision
making have become pivotal concerns The ever increasing demand for data processing has given rise to issues such as
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dynamic optimization Sessional Papers, 1923 Report of the Dominion fishery commission on the fisheries of the province
of Ontario 1893 issued as vol 26 no 7 supplement *Joint Volumes of Papers Presented to the Legislative Council and
Legislative Assembly* New South Wales. Parliament, 1906 Includes various departmental reports and reports of commissions
Cf Gregory Serial publications of foreign governments 1815 1931 **College of Engineering Catalogue** Carnegie Institute
of Technology. College of Engineering and Science, 1956 *Announcements for ...* University of Pittsburgh. School of
Business Administration, 1923 **The Papers of the ... SIGCSE Technical Symposium on Computer Science
Education**, 1979 **Annual Catalog of the Western University of Pennsylvania, Year Ending ...** University of
Pittsburgh, Western University of Pennsylvania, 1921 **Revue Semestrielle Des Publications Mathematiques**, 1895
 Nature Sir Norman Lockyer, 1912 *Revue Semestrielle Des Publications Mathématiques*, 1913 The Publishers'
Trade List Annual, 1893 **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1916 **Catalogue of
Scientific Papers, 1800-1900** Royal Society (Great Britain), 1908

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