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Code No: 156DY			
AG _{Tim}	B. Tech III Year II Semester Examinations, February/March - 2022 QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS (Common to CE, CSE, IT) Max. Max.	AG	/
	Answer any five questions All questions carry equal marks		
△ (1.a) b)	Briefly explain the different Techniques of OR. Where are they applied? Brief on the solution methodology of simplex algorithm.	[8 ±\[]	/
2.a) b)	What are the advantages of OR? How did OR develop in India and where are they being applied now?	[8+7]	
3.a)	What is a Transportation Problem and brief on the application of the transportation model.	ortation	
\triangle \bigcirc b)	Briefly explain the steps involved in solving the Vogel's Approximation M	Method [8+7]	1
4.a) b)	What is an Assignment Problem? What are its Objectives and Characteristics? Solve the following Assignment Problem Efficiency Matrix:	[8+7]	
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5.a) b)	What is Minimax Regret Criterion? Give a hypothetical example of the same. What are the situations that make group replacement of low-cost items? At a Sales Counter manned by a single person customers arrive accord Poisson distribution, at a mean rate of 20 per hour and the time required to se customer is expected to follow Exponential Distribution with a mean rate of 20 seconds. Find the Average Waiting Time of a customer in the System and Queue.	rvice a ate of	1
A (7.a) b)	What is a Q-System? What are its basics elements? Explain the same briefly. Explain the solution methods of games without saddle point.	[847]	/
8.a)	What is Coefficient of Optimism (Hurwitz Criterion) in Decision-Making Uncertainty? Briefly explain the same.		
b)	Explain the nature, scope of simulation and brief on types of simulation.	[8+7]	

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