R19

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MBA II Semester Examinations, July/August - 2021 **QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS** Max.Marks:75

Time: 3 hours

Code No: 762AD

Answer any five questions All questions carry equal marks - - -

1.a) b)	Discuss quantitative and qualitative analysis. What are the shortcomings of using an OR model? [8-			
2.	How OR can help in problem-solving and decision making. Discuss in detail.			1. [15]
3.	Minimize W = $3X1+2X2$ Subject to X1+ $3X2 \le 6$ $2X1+X2 \ge 3$		on	
	With $X1 \ge 0$, $X2 \ge 0$		6	[15]
4.	Write short notes on:			[7+8]
	a) Hungarians Method b) Unbalanced assignment problem			
5.	A small project consisting of eight act Activity Preceding Activity Optimistic A - FTO 2 B - FT	he time estimate Most Likely 4 12 9 15 7.5 9 3.5 5		s: [15]
6.a) b)	How do you solve a crashing problem in project management? Discuss critical path determination.			[8+7]
7.a) b)	What are the three components of queuing? What is the basic queuing process?			[8+7]
8.	What is meant by saddle point? What is saddle point and value of the game? [15]			
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