Name: Enrolment No:



UNIVERSITY WITH A PURPOSE

## UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination (Online) – July, 2020

## Program: MBA LSCM Subject/Course: Optimization through spreadsheet Course Code: DSBA 7003

Semester : II Max. Marks: 100 Duration : 3 Hours

## **IMPORTANT INSTRUCTIONS**

- 1. The student must write his/her name and enrolment no. in the space designated above.
- 2. The questions have to be answered in this MS Word document.
- 3. After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.

	Please solve the question	ons in the exc	el attached	l			Marks	Cos
Q.1	Data Table, Goal Seek ( The quantity of water bo the plant is Rs. 50000 and A) Find the net prof price at which water bot B) Fill the data table for bottles sold as row input	ottles sold for ad the variable it in the exce tles be sold for the values of	Rs. 10 is 4 e cost per bo l sheet. Usi or a profit of of net profit	ottle is Rs. 7 ng goal see f Rs. 12000 considering	7. k function, find 0.	d the	20	CO1
Q.2	Consider the assignment Assignee/Task A B C D i. Use excel to assignee, so a	I 8 6 7 6 calculate how	II 6 5 8 7 7 9 should the	III 5 3 4 5 tasks be all	IV746660located, one per	r	20	CO3
Q.3	A manufacturer of leather processed on three mac machine M1 and 3 hour requires 3 hours on mach M3 and Belt C requires There are 8 hours of time	er belts makes hines M1, N s on machine ine M1, 2 ho 5 hours on 1	s three types 12, and M3 e M2 and 2 urs on mach nachine M2	s of belts A, B. Belt A r hours on n ine M2 and 2 and 4 hou	equires 5 hour nachine M3. Bo 2 hours on mac urs on machine	rs on elt B chine M3.	20	CO2

	M3. The profit	nained from	helt A is D	c 3 par unit	from helt P	is Ro 5	ner unit		
	1			•			•		
	from belt C is R	-				tion of e	ach typ		
	of belt so that th	1		1					
	The Cost-Less shipping cost pe							3	
	Plant/Retail	1	2	3	4	Sup	ply		
	Α	\$700	\$800	\$500	\$200	10	)		CO4
	В	\$200	\$900	\$100	\$400	20	)		
Q.4	С	\$400	\$500	\$300	\$100	20	)	20	
	D	\$200	\$100	\$400	\$300	10	)		
	Determine the excel solver.	having two	o factories. T	The firm is to	ship its pro	ducts fro	om the	1	
	Determine the excel solver. Consider a firm factories to thre Y are 400 and 6 350 and 450, res factories to retain	optimal dis having two e retail stor 00, while t spectively. il stores, it	stribution th o factories. T res. The num hose demand Rather than is asked to in	at minimize The firm is to ber of units ded at retails shipping the nvestigate th	total shippi ship its pro available at stores A, B a products di e possibility	ducts fro factories nd C are rectly fro of trans-	om the X and 200, om		
	Determine the excel solver. Consider a firm factories to thre Y are 400 and 6 350 and 450, res	optimal dis having two e retail stor 00, while t spectively. il stores, it	stribution th o factories. T res. The num hose demand Rather than is asked to in	at minimize The firm is to ber of units ded at retails shipping the nvestigate th pees) per un	total shippi ship its pro available at stores A, B a products di e possibility it is given th	ducts fro factories nd C are rectly fro of trans- e table b	om the X and 2 200, om elow	1	
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Q.5	Determine the excel solver. Consider a firm factories to thre Y are 400 and 6 350 and 450, res factories to retain	optimal dis having two e retail stor 00, while t spectively. il stores, it ransportatio	stribution th o factories. T res. The num hose demand Rather than is asked to in on cost(in ru	at minimize The firm is to ber of units ded at retails shipping the nvestigate th pees) per un Factory	total shippi ship its pro available at stores A, B a products di e possibility it is given th A	ducts fro factories nd C are rectly fro of trans- e table b Retail Sto B	om the X and 200, om elow re C	]	CO
Q.5	Determine the excel solver. Consider a firm factories to three Y are 400 and 6 350 and 450, res factories to retain shipment. The t	optimal dis having two e retail stor 00, while t spectively. il stores, it ransportatio	stribution th o factories. T res. The num hose demand Rather than is asked to in on cost(in ru	at minimize The firm is to ber of units ded at retail s shipping the nvestigate th pees) per un Factory Y 8	total shippi ship its pro available at stores A, B a products di e possibility it is given th A A 7	ducts fro factories nd C are rectly fro of trans- e table b Retail Sto B 8	om the X and 200, om elow re C 9	]	CO
Q.5	Determine the excel solver. Consider a firm factories to three Y are 400 and 6 350 and 450, res factories to retain shipment. The t	optimal dis having two e retail stor 00, while t spectively. il stores, it ransportatio	stribution th o factories. T res. The num hose demand Rather than is asked to in on cost(in ru X 0 6	at minimize The firm is to ber of units ded at retail s shipping the nvestigate th pees) per uni- Factory Y 8 0	total shippi ship its pro available at stores A, B a products di- e possibility it is given th A A 7 5	ducts fro factories nd C are rectly fro of trans- e table b Retail Sto B 8 8 4	om the X and 200, om elow re C 9 3	]	CO