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Enrolment No:



Semester: IV

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2022

Course: Logistics in Manufacturing Sector

Program: BBA LM Time : 03 hrs.
Course Code: LSCM 2011P Max. Marks: 100

Instructions:

SECTION A 10Qx2M=20Marks

S. No.	Attempt all questions in this section	Marks	CO
Q 1	Answer the following		
(a)	is the amount of time spent a job spends in a factory.	2	CO1
(b)	What is the meaning of PQM? a) Production Quality Model b) Product Quality Model c) Production Quantity Model d) Product Quantity Model	2	CO1
(c)	Planned order release incorporates lead time to order the components (T/F)	2	CO1
(d)	Full form of CRAFT is	2	CO1
(e)	MRP is a statement of how many finished items are to be produced and when they are to be produced (T/F)	2	CO1
(f)	Delphi technique is a quantitative technique used for forecasting (T/F)	2	CO1
(g)	is a technique for determining the quantity and timing for acquisition of dependent demand items to satisfy master production schedule.		
(h)	The various types of transformation processes are	2	CO1
(i)	Select all the correct statements a) End items are finished goods scheduled in the MPS or FAS that must be forecast b) Dependent demand is demand that is directly related to the demand for other SKUs and can be calculated without needing to be forecasted c) A competitively dominant customer experience is often called a value proposition d) Cresh time is the maximum possible time the activity can realistically be completed.	2	CO1
(j)	d) Crash time is the maximum possible time the activity can realistically be completed The algorithm for two resource scheduling problem is	2	CO1
U)	The distribution two resource seneduling problem is	2	CO1

Q	Attemp	ot all questions					
1	What i	What is the difference between Gross Requirements and Net Requirements? Explain.					
2	What are the various techniques for single resource sequencing problem?						CO2
3	What i	What is the meaning of cellular layout? Explain diagrammatically.					
4	What i	s the difference be	tween economies and d	iseconomies of scale?		5	CO2
			SECTION SECTIO				
Q	Attemp	ot all questions	-				
5	Find the forecast for the month of June using exponential smoothing. The value of alpha=0.3 Demand data Jan 23.3 Feb 32.4 Mar 34.0 Apr 27.5 May 38.5						CO3
6	What a	are the distinctions	between manufacturing	g and service operations	s? Explain.	10	CO3
7	The	Sl. No.	Census tract	(x,y)	Population (l)		
	new	1	A	(2.5,4.5)	5		
		2	В				
				(2.5,3)	6		
		3	C	(5.5,4.5)	8		
		4	D	(6,2)	22		
		5	Е	(8,4)	10		CO3
		6	F	(7,2)	14		
		7	G	(10,2.5)	20		
	healthcare facility is targeted to serve seven census tracts in Delhi. Two locations are considered for a new facility at (5.5,4.5) and (7,2). Use population as the load and use rectilinear distances.						

				TION-D [= 30 Mark	KS				
Q	Answer the following								
8	A book binder has one printing press, one binding machine and manuscripts of 6 different books. The process is first printing and then binding. The times required for performing binding and printing operations for different books are shown below:								
	Book	1	2	3	4	5	6		
	Binding time(hours)	20	90	120	20	80	15	15	CO4
	Printing time(hours)	25	60	75	30	90	35	15	004
	Decide the ontimum								
	time required to brin		_			nimize the to elapsed tin			
9	Product A is made fr a single product A. Of from 1 part D and 2 the following question	g out all the book rom two compon Component B is a part E's. Use this	ents, B a made from s informa	nd C. It taken three partion togeth	es one B ants D's. Comer with data	d two C's to apponent C is a below to an	o make made nswer	Rents	
9	Product A is made fr a single product A. Of from 1 part D and 2 the following question	rom two compon Component B is r part E's. Use this ons:	ents, B a made from sinforma	nd C. It taken three partion together	es one B ants D's. Comer with data	d two C's to apponent C is below to an	o make made nswer	Repts	CO4
9	Product A is made fr a single product A. Of from 1 part D and 2 the following question	g out all the book rom two compon Component B is a part E's. Use this	ents, B a made from s information Lot	nd C. It taken three partion together Size	es one B an ts D's. Comer with data On hand	d two C's to apponent C is below to an Sch	o make made nswer	-	CO4
9	Product A is made fit a single product A. Of from 1 part D and 2 the following question Part A	rom two compon Component B is 1 part E's. Use this ons:	ents, B a made from s information Lot	nd C. It taken three partion together Size	es one B ants D's. Comer with data	d two C's to apponent C is below to an	o make made nswer	-	CO4
9	Product A is made from 1 part D and 2 the following question Part A B	rom two compon Component B is r part E's. Use this ons: Lead Time	ents, B a made from Lot	nd C. It taken three partion together Size	es one B and ts D's. Comber with data On hand 50 10	d two C's to aponent C is below to an Sch	o make made nswer	-	CO4

star		and E. Production quantities and production in week 4, 30 in week 6, 40 in week 7, 50 in	
	Week		
	Gross Requirement		
	Scheduled receipts		
	Projected Available		
	Net requirements		
	Planned order receipt		
	Planned order release		