Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2018

Course:	Ware House Management
Semester:	III
Programme:	MBA Logistics & Supply Chain Management
Time:	03 hrs.
Instructions:	Prof. Balaram Swamy J.

SECTION A

S. No.							Marks	CO
Q 1	Fi	ll the blanks with the	most suitable	word from the <u>w</u>	ord-bank given	below.		
	а		ed to barest m	inimum viz. ,	•	erefore, ideally the e-on-wheels between	1x3	01, 02
	b	Warehouse location decision and, p		•		ck taking process is a decision.	1x3	01, 02
	с	The demand made of also provide se		e Manager is to d	leliver in	,and,;	1x5	01, 02
	d	on criteria. In t finalized and their. E	his exercise, the Each one gives a	e or, on a number of	which a wareho criteria, which i	ouse locations based ouse location need be s then consolidated – of the criteria are the	1x7	01, 02
	e	<pre> is a mirror image later is done.</pre>	ge of staging be	ecause in the for	mer break-bulki	ng is done and in the	1x2	01, 02
				WORD BANK -	Please choose t	he word from below		
		rated	Factors	criteria	weights	predetermined		
		operations	less-time	transit-days	value-added	storage-time		
		put-away	Qualitative	less-cost	less-errors	strategic		
		tally marks	Idle	more-orders	tactical	consolidation		
	•		(DO ANY TWO	SECTION B QUESTIONS FRC	OM Q 02, Q 03 a	nd Q 04 <u>)</u>	02x20 = 4	40 Marks
Q 02	(DO ANY TWO QUESTIONS FROM Q 02, Q 03 and Q 04)Your Company has Regional Warehouses in North, East, West and South India at New Delhi, Kolkata, Pune and Bangalore; they cater to the respective markets. Hub-and-spoke method of distribution is envisaged now, and a proper city for the Nodal Warehouse is under discussion. You have been entrusted to come-up with the location for the proposed Nodal					20	CO 01 CO 03	



CC:LSCM 8005

Max. Marks: 100

20 Marks

Q 05	Refer to the attached statement of question about Layout Design and answers the questions (a, b, c, d) therein	40	CO 01 CO 02 CO 03
	SECTION-C	40 Ma	rks
	Best Buys operates eight warehouses, each carries Rs. 2,500,000 of inventory on the avera The company wants to consolidate inventories into two warehouses. Assuming dema across the markets are negatively correlated; calculate the savings that the company wo achieve ?	nds 10	
Q 04	What is Centralized and De-centralized Distribution Networks? What is risk pooling in terms of safety stock in the two modes of distribution systems ? What is Square Root Law (SRL)? and what are the assumptions ?	2.5 2.5 2.5 2.5 2.5	CO 02 CO 03
Q 03	 a. Discuss Warehouse Performance Measures b. Warehouse Performance Index c. Gap Analysis d. Bench Marking 	10 04 03 03	CO 03
	@ in Lakh Metric-tons per annum + in Degrees		
	New Delhi 2,356 28.61 77.21 Pune 2,867 18.52 73.80 Kolkata 1,687 22.57 88.36 Bangalore 2,048 12.97 77.59		
	CityMarket Size@Latitude+Longitude+CityMarket Size@Latitude+Longitude+New Delhi2,35628.6177.21Pune2,86718.5273.80		
	 have Googled Latitude and Longitude data in degrees, given alongside in the table. Also, a searched Google and obtained the length of the Equator and Meridional Circumference the earth as 40,030 kilo meters and 40,008 kilo meters respectively. Calculate the Latitude and Longitude of location for the proposed Nodal Warehouse. 	•	

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MBA Logistics & Supply Chain Management

Semester: Ш

Course:

Programme: Master in Business Administration

Time: 03 hrs.

Instructions: Prof. Balaram Swamy J.

SECTION A

Marks 20

S. No.		Marks	CO
Q 01	Fill the blanks with the most suitable word for a and b below from the word-bank		
	a Market penetration in distribution is achieved by configuration for flow of material; where two are more are connected and each head from each becomes another, thus geographical penetration is achieved.	1x5	01, 02
	b The demand made on a Warehouse Manager is to deliver in , and,; also provide more services.	1x5	01, 02
	Word Bank: Please choose the word from below for question 1.a and 1.b		
	more-orders value-added no-errors hub-and-spoke less-time spoke hub less-cost		
	 c All storage spaces in a supply chain fall in one or more of the three material flow areas – Inward, Inhouse and Outward Flow. Identify the flow area in which following warehouses belong to <i>I. WIP Store</i> <i>II. Spare Parts Store</i> <i>III. Distribution Center</i> <i>IV. Original Equipment Store</i> <i>V. Collection Center</i> <i>VI. Raw Material Store</i> <i>VII. Component Store</i> <i>VIII. Finished Goods Store</i> IX. <i>Fulfillment Center</i> X. Local Warehouse 	1x10	01, 02
	SECTION B	Marks 40	
	(DO ANY TWO QUESTIONS FROM Q 02, Q 03 and Q 04)		
Q 02	Given below is fourteen carton sizes. Calculate the maximum number of cartons, which can be placed in 1000 square feet area in a ground plus six-layer configuration.	20	CO 01 CO 02

Max. Marks: 100

UPES

				H) in mm	zes (L x W x	Carton Si		
			350	610 x 480 x 3		590 x 390 x 530		
			130	500 x 500 x 4		590 x 390 x 480		
			100	520 x 520 x 4		590 x 390 x 400		
			125	590 x 390 x 4		590 x 390 x 600		
			100	600 x 480 x 4		620 x 390 x 460		
			100	530 x 420 x 4		470 x 470 x 500		
			150	480 x 340 x 4		590 x 390 x 330		
CO 01 CO 02	15 05	evant factors, ite locations –	entifying rele the candida	It involves ide a rate and rank	g method. nd finally, to on of a ware	ocation decision is an ite ne of them is Factor Ratin their relative importance a nree stages owing factors for the locati nate locations, rank the loc	locations. Of determining t discuss the th Given the foll	Q 03
		Lucknow	Kanpur	Pantnagar	Baddi	Factors	Weights	
		Lucknow 90	Kanpur 40	Pantnagar 100	Baddi 80	Factors Transportation Cost	Weights 0.20	
			-					
		90	40	100	80	Transportation Cost	0.20	
		90 80	40 60	100 100	80 60	Transportation Cost Labour Availability	0.20	
		90 80 60	40 60 80	100 100 80	80 60 60	Transportation Cost Labour Availability Infrastructure	0.20 0.15 0.25	
CO 02 CO 03	05 05 05 05	90 80 60 60	40 60 80 90	100 100 80 70	80 60 90 40	Transportation Cost Labour Availability Infrastructure Law and Order	0.20 0.15 0.25 0.30 0.10 a. What is l b. Where a c. And, cor	Q 04
CO 03	05 05	90 80 60 60 50	40 60 80 90	100 100 80 70 80	80 60 90 40	Transportation Cost Labour Availability Infrastructure Law and Order Local Govt. Taxes LIFO-FIFO? re they used? responding Storage Syste	0.20 0.15 0.25 0.30 0.10 a. What is l b. Where a c. And, cor	Q 04