Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, December 2019**

Course: Supply Chain & Logistics for Port and Shipping Program: MBA PSM **Semester: III** Time: 03 Hours Course code: LSCM 8014 Max. Marks: 100

Instructions:

S. No.				Section A			Marks	CO
Q 1	Attempt al	l the quest	ons. Each que	stion is compu	lsory.			
a)	Differentiate Operations Management from SCM						2	3
b)	Enumerate factors affecting the location decision for a Ship Building Plant						2	3
c)	Discuss the	significanc	e of KPIs in car	se of a major po	ort.		2	4
d)	Differentiate Push Approach from Pull Approach.						2	1
d)	Critically evaluate NWCM of Transportation Model.						2	2
e)	What logistics challenges a shipping company faces at ports? Enumerate any four MHEs used for ports.						2	1
f)	Enumerate any four MHEs used for ports. Discuss the significance of shipping route in case of export of coal/iron ore. How Porter's Value Chain Model is applicable in shipping industry? Discuss KPIs practiced in case of shipping agencies.						2	2
g)	Discuss the significance of shipping route in case of export of coal/iron ore.						2	2
h)	How Porter's Value Chain Model is applicable in shipping industry?						2	4
i)	Discuss KPIs practiced in case of shipping agencies.						2	4
j)	How shipping agencies can optimize the shipping cost?					2	2	
	Section B Attempt any four questions.							
Q 2	Differentiate Factor Rating Method from Break-even Method.						5	3
Q3	Destinations							
	Factory Sup	l ply	II	III	IV			
	F1	3	7	6	4	5		2
	F2	2	4	7	5	2	5	
	F3	4	5	8	8	3		
	Demand	3	3	2	2			

	Determine the initial basic feasible of the following T.P. by using matrix minima method.		
Q 4	For a specific MHE at port, a part 'P' is to be ordered by a 3 PL company, following data is available:		
	Monthly Demand= 500 units		
	Purchase cost/unit = Rs. 650/unit		
	Ordering costs= Rs. 800/ order	5	
	Holding costs (Ch) = Rs. 250/unit/year, fire insurance = 5% of the unit cost, 5% other overheads.		2
	Determine optimal order quantity of 'P' items and how frequently the order should be placed?		
Q 5	Discuss various factors affecting the efficiency of a port.	5	2
Q 6	Discuss the role of CHA for cargo operations.	5	2
	Section C		
0.7	Attempt any two questions. Attempt the short notes on the following:		
Q 7	a) Challenges in designing Route/network for vessels/ships		3
	b) Rationalization Vs Innovation strategy	2x7.5=15	3
	c) Green Supply Chain in shipping sector		3
Q 8	How Pricing strategies are vital for any shipping agency? Explain the current		
V o	pricing strategies of any shipping agency and what changes you suggest to make		
	it more profitable?		3
	it more promable?		
Q 9	Discuss the role of CHA/Port Operators/Sea Farers/Chartering Services in		
Q	shipping sector. How 3 PL companies can make use of these services more		3,4
	efficient and effective using KPIs?	15	- /
0.10	G. A. D.		
Q 10	Section D Attempt the following case study.	10x3=30	
	Attempt the following case study.	1033-30	
	Refer to 300cubits.tech: Block Chain Innovation for Shipping Industry		
	case by Johnson and Jonathan and attempt the following questions:	10	
	Q 1. Discuss the problems faced by Container Shipping Companies and what solutions		
	authors have suggested in the case?	10	1
	Q 2. How Shipper and Shipping Agencies can integrate the token system in existing IT System?	10	3

Q 3. How Shippers and Shipping companies should use Block chain technology to create smart contracts?	3