Name:

Enrolment No:



Semester: I

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, Dec 2021

Course: Operations and Materials Management

Program: BBA LM Time: 03 hrs.
Course code: LSCM 1004 Max. Marks: 100

SECTION A

1. Each Question will carry 2 Marks 2. Instruction: Complete the statement / Select the correct answer(s)						
S.No	Questions 1 to 10 (Total 20 marks)	СО				
Q.	 TQM stands for MRP ORACLE ERP ATO Price is the attractiveness of a product relative to its affordable quality. Inventory carrying cost is associated with the mixed type of aggregate planning. Routing indicates the unloading and sequencing of the shipments. Fast delivery focused on shorter time between order placement and delivery. 3PL refers to hiring out or subcontracting some of the work that a company needs to do. 	CO1				
	SECTION B					
	 Each question will carry 5 marks Instruction: Write short / brief notes in your own words only. 					
Q 11	Explain BEP with example.	CO2				
Q 12	A factory uses annually 24,000 units of a raw material, which costs Rs. 1.25 per unit. Placing each order costs Rs. 25 and carrying cost is 6% per year of the average inventory. Find the economic order quantity.	CO2				
Q 13	Discuss the store functions with example. OR Discuss cellular layout with example.	CO3				
Q 14	How firms can get benefit with the machine productivity?	CO4				
	SECTION C 1. Each Question carries 10 Marks. 2. Instruction: Write long answer.					
Q 15	Explain the use of LPP approach in aggregate planning.	CO1				

Q 16	Fill up the bl	anks:				
	Date	Contribution	Contributor			
	1	Specialization of labour in manufacturing	Adam Smith			
	2	Interchangeable parts, cost accounting	Eli Whitney and others			
	1832	Division of labour by skill; assignment of jobs by skill; basics of time study	3			
	4	Scientific management time study and work study developed; dividing planning and doing of work	Frederick W. Taylor		CO2	
	1900	5	Frank B. Gilbreth			
	1901	Scheduling techniques for employees, machines jobs in manufacturing	6			
	1931	7	W. A. Shewart			
	8	Statistical sampling applied to quality control: inspection sampling plans	H.F. Dodge and H.G. Roming			
	1940	9	P.M. Blacker and others			
	1947	10	G.B. Dantzig, Williams and others			
Q 17	a) What are	the factors affecting location decisions?				
	b) Differentiate between Agglomeration and Degglommeration with relevant examples.					
	OR					
	a) Discuss the Weber's Model of Manufacturing Industry Production.					
	b) You are an analyst for AC Delco. You are considering a new manufacturing plant in					
	Akron, Bowling Green, or Chicago. Fixed costs per year are \$30k, \$60k, & \$110k respectively. Variable costs per case are \$75, \$45, & \$25 respectively. The selling					
	price per case is \$120. What is the best location for an expected volume of 2,000 cases					
	per year?					
		SECTION D				
1.	_	on carries 15 Marks.				
2. Q 18	1	Write long answer. nanufacturer purchases lubricants at the	rate of Rs. 42/- per piece.	The		
	requirements are 1800 p.a. What should be the ordering quantity, if the cost per order				965	
	is Rs. 16/- and inventory carrying charges per rupee per year is 20 paisa. Also, calculate				CO ₃	
	the total	cost.				

	b) Draw the diagram of typical warehouse layout.		
Q 19	Discuss the functions of PPC with the help of diagram. What parameters to consider for		
	PPC functions?		
	OR	CO4	
	What are the steps to take in scheduling? Explain any four tools of quality control with		
	diagram and example.		