Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: Operation and Material Management

Semester: 3rd

Program: BBA-AVM
Course Code: LSCM2001 Time : 03 hrs.
Max. Marks: 100

Instructions:

	SECTION A 10Qx2M=20Marks		
S. No.		Marks	CO
Q1	Product design deals with conversion of ideas into	2	CO1
Q2	The product layout diminishes the overall production time. (True/ False)	2	CO1
Q3	Takt time= available time/ ()	2	CO1
Q4	Utilization = Actual output/ ()	2	CO1
Q5	Rated capacity is based on theproduction rate established by actual trials is referred to as rated capacity.	2	CO1
Q6	Hybrid Layout is combination of and types of layout	2	CO1
Q7	Forecasting for five or ten years into the future is(more/ less) risky and difficult.	2	CO1
Q8	Cycle time is the interval of time between twocoming off the end of a production line or assembly line.	2	CO1
Q 9	Process layout also called as	2	CO1
Q10	has less risk as such products have already been made before and it is only process of creating them in greater numbers. (Projects/ Operations)	2	CO1
	SECTION B		
	4Qx5M= 20 Marks		
Q1	Define Total Quality Management	5	CO2
Q2	Describe ABC analysis in brief.	5	CO2
Q3	What do you mean by lean in operations?	5	CO2
Q4	Discuss Just-in-time.	5	CO2
	SECTION-C 3Qx10M=30 Marks		1
Q1	Differentiate between project and operations.	10	CO3

Q2	Compare various types of facility layout in details.	10	CO3
Q3	Discuss the functions of Operation management in details.	10	CO3
OR	A manufacturing company places a semi-annual order of 24,000 units at a price of \$20 per unit. Its carrying cost is 15% and the order cost is \$12 per order.		
	Evaluate	10	CO3
	 What is the most economical order quantity? How many orders need to be placed? 		
	SECTION-D 2Qx15M= 30 Marks		
Q1	The performance times are shown besides task time on the node. Determine line efficiency, balance delay for cycle time a) 15 b)18 A 12 B 5 C 7 B 6 C 7 C 7 C 7 C 8 C 7 C 7 C 8 C 7 C 7	15	CO4
Q2	Define capacity planning? Why is it needed? What are the factors affecting capacity decisions?	15	CO4
OR	What is material management? What are the basic needs of material management? Discuss the transformation processes in OM in details.	15	CO4