Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, Dec 2020

Course: Operations Management

Program: BBA (Analytics & Bus, Data/Family Business & Entrepreneurship)

Time: 180 Mir

<b>Program:</b> BBA (Analytics & Bus. Data/Family Business & Entrepreneurship) <b>Course Code:</b> LSCM 1002 <b>Time:</b> 180 M <b>Max. Marks</b>						
<b>Section-A</b>	Answer all six questions. Each question carries five marks [30 Marks]	COs				
0.1						
Q1	Community infrastructure is treated as a factor in facility location planning. [Select the right answer.]					
A	controllable					
B						
С	specific					
Q2	The concept of quality control charts was coined by [Select right answer.]	CO1				
A	F W Taylor					
В	Henry Gantt					
C	W A Shewart					
D	W E Deming					
Q3	MRP in operations management stands for [Fill in the blank.]	CO1				
Q4	SQC stands for [Fill in the blank.]	CO1				
Q5	is also known as corrective maintenance. [Select right answer.]	CO1				
A	Preventive maintenance					
В	B Predictive Maintenance					
С	Breakdown Maintenance					
Q6	ROL stands for [Fill in the blank.]	CO1				
Section-B	n-B Answer all <u>five</u> questions. Each question carries <u>ten</u> marks [50 Marks]					
Q7	Write the systematic procedure of designing a process layout.	CO1				
Q8	Explain the types of layouts suitable for different production systems.	CO1				

Q9	Explain the significance of <i>Forward Scheduling</i> and <i>Backward Scheduling</i> in production planning and operations management.				
Q10	Had you been the sales analyst, and you would have used the single exponential smoothing method, what would be the forecasting values for the year 2020 for your company? Show all calculations. The actual sales figures are given in the table —				
	Month	Actual	Forecasting	Other information	
		Sales	Values		
	Jan' 2020	135	?	Quarter-1	
	Feb'20	134	?	Assume forecast value for Jan-20 to be 135.	
	Mar'20	136	?	α value for this period is 0.3	CO2
	Apr'20	138	?	Quarter-2	
	May'20	136	?	α value for this period is 0.4	
	Jun'20	136	?		
	Jul'20	137	?	Quarter-3	
	Aug'20	137	?	α value for this period is 0.4	
	Sep'20	141	?		
	Oct'20	124	?	Quarter-4	
	Nov'20	129	?	α value for this period is 0.3	
	Dec'20	137	?		
Q11	The observed time of an operation task is 15 minutes. The work being done in the morning shift, operators exhibit a performance rating of 120%. But, the critical nature of the process demands an allowance of 8% and the operators need badly a personal allowance of 3%. Compute the <i>Normal Time</i> and <i>Standard Time</i> to perform this operation task.				
Section-C	Answer the	given and	estion which a	earries twenty marks [20 Marks]	COs
Section-C	Answer the given question, which carries <u>twenty</u> marks. [20 Marks]				
Q12	Explain how the ten functions of PPC are executed in a manufacturing plant, if the plant runs a patch production system.				
	OR				
	Explain the seven popular tools used for <i>Quality Control</i> in a manufacturing organization, which looks for continuous improvement.				
	organization	, which to	OKS TOL COHUIIU	ious improvement.	