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Roll No. Total No. of Questions : 08									Total	No. o	f Page:	s : 02	
M.Tech.(ME) (Sem2) OPERATIONS MANAGEMENT Subject Code: MME-508 M.Code: 38209													
Tim	e : 3	Hr	s.						Max.	Marks	: 100		
INST 1. 2.	Atte	mpt	any FI	NDIDAT VE ques carries	tions o			estions					
1.	a) Explain the Global business conditions of India in the present scenario. (10)											(10)	
	b)	 Define the forecasting and explain the semi average and moving average methods o forecasting. (10) 											
2.	a)	Derive the mathematical expression for new forecast using exponential smoothing method of forecasting.											
 Explain the major factors affecting the process design. 										(10)			
3.	11 ^t his	The demand for a product in last 10 years is given below. Forecast the demand for the 11th year by simple average and regression methods. Compare the forecasts with the historical data from 4th to 10th year data to find MAD, Bias, MAPE and SD in both the cases. Which method of forecasting would you recommend? (20)											
	Ye	ar	1	20	3	4	5	6	7	8	9	10	
	Un	nits	110	130	147	150	177	164	161	170	187	180	
4.	De	fine	the prod	uction co	ontrol ar	nd explai	n functio	ons of pro	oduction	plannin	g and co	ntrol.	

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a) Explain various types of maintenance required to be earned out in industries.

b) Explain the Maintenance Planning and write its procedure.



5.



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- a) What is Standardization? Distinguish between Standardization and Specialisation.
 (10)
 - Define Sampling inspection and explain multiple sampling plan with its advantages and limitations. (10)
- 7. "Rama & Sons" is engaged in the manufacturing of nail drivers. The management of firm thinks that sales of nails drivers logically be related to the amount spent on construction. If the construction volume is in Rs.100 million units and product sales are in Rs.10000 units. Find out:
 - a) Is it worthy to consider the correlation between sales of nails and construction volume? (10)
 - b) If the projected construction volume for the next month is Rs.300000000, what would be sales volumes of the nails in rupees? (10)

Month	1	2	3	4 🐇	5	6	7	8	9	10
Nail driver sales *10 ⁴	7.5	10	9	10.5	11.5	11	10.5	10	11.5	10.5
Construction volume *10 ⁸	2	2.5	2	3.5	3.5	3	2.5	3	3	2.5
Month	11	12	13	14	~(Q)	16	17	18	19	20
Nail driver sales *10 ⁴	10	11	9	200	12.5	11.5	11.5	10.5	911	9
Construction volume *108	2.2	3	2.5	2	3.5	3	3	3	3	2

Write the short notes on the following :

- `\	Overlides Assessment of	\ .*		(7)	
a)	Ouality Assurance.	47 .		(/)	

b) Supply chain Management (7)

c) Operations Strategies (6)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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