R16



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech III Year I Semester Supplementary Examinations November 2020 INDUSTRIAL ENGINEERING & MANAGEMENT

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units $5 \times 12 = 60$ Marks)

UNIT-I

1	a	Name and describe the various levels of management with their functions	6M
	b	State and describe the Taylor's principles of scientific management	6M
2	9	UK State and explain the Douglas Mc-Gregor's Theory X and Theory V	6M
4	a h	Describe the principles of Organization	6M
		UNIT-II	0101
3		What are advantages and disadvantages of urban and suburban locations for a plant? Compare rural and urban sites for the location of the plant OR	12M
4		Explain different types of plant layout? Give a critical appraisal for each of them.	12M
		UNIT-III	
5	a	What are the various method study symbols? Explain	6M
	b	What are the typical questions used in operation analysis with respect to material	
		shape, equipment, tool, and other aspects of the operation and elements of operation?	6M
		OR	
6	a	Describe the SIMO chart with an example	6M
	b	What are the various types of allowances to be considered in the calculations of standard time	6M
		UNIT-IV	
7	a	Describe Inventory control. What are the objectives of inventory control?	6M
	b	Describe the cost associated with the inventories	6M
0		OR	
8	a	lengths.	6M
	b	A company produces 4800 parts per day and cells them at approximately half of that rate. The setup cost is Rs. 1000 and carrying cost is Rs. 5 per un6t. The annual demand is 480000 units. Find: (a) Optimal lot size b) Number of production runs that should be scheduled per year, c) Length of each production run.	6M
0	-	UNII-V Evelain in detail chart Statistical Quality Control	
У	a h	Explain in detail about Statistical Quality Control? Give detailed explanation about TOM?	OM 6M
	U	OR	UNI
10	a	Detail about X and R charts?	6M
	b	What is the importance and functions of HRM	6M
		*** END ***	