Q.P. Code: 16ME311 **R16**

Reg. No: | | | | | | | | | | |

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech III Year I Semester Regular & Supplementary Examinations Nov/Dec 2019

INDUSTRIAL ENGINEERING MANAGEMENT

(ME)

Time: 3 hours Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	**a**	State and describe the Fayol's principles of management.	**6M**
	b	Write the definition of Management and Administration.	**6M**
		OR	
2	**a**	How accountability is important for an Organization.	**6M**
	b	Describe the organizational structures.	**6M**

UNIT-II

3		Explain the importance of travel chart in effective layout of a production plant. Prepare a travel chart for a hypothetical engineering concern with 4 functional departments, i.e. foundry, machining, welding and inspection.	**12M**
		OR	
4	**a**	Define Material Handling system.	**6M**
	b	Why the material handling systems are important in industries?	**6M**

UNIT-III

5	**a**	What is the purpose of string diagram and explain it with an example.	**6M**
	b	What is therbligs? List the table with details?	**6M**
		OR	
6		What measurements are to be done in a stop watch time study? Discuss briefly how they are done?	**12M**

UNIT-IV

7	**a**	What are the functions of inventory control?	**6M**
	b	Derive the formula for determining EOQ for inventory model with uniform demand.	**6M**
		OR	
8	**a**	Derive the formula for determining number of production runs and optimum lot size to be manufactured	**6M**
	b	An item is produced at the rate of 50 items per day. The demand occurs at the rate of 25 items per day. If the setup cost is Rs. 100 per set up and holding cost is Rs. 0.01 per unit of item per day, find the economic lot size for one run, assuming that shortages are not permitted. Also find the time of cycle and minimum total cost for one run.	**6M**

UNIT-V

9	**a**	Explain in detail about P and C charts?	**6M**
	b	Write in detail about Quality circles in TQM?	**6M**
		OR	
10	**a**	What are the major types of Acceptance Sampling?	**6M**
	b	What are the objectives of Inspection& Quality control?	**6M**

*** END ***