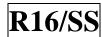
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech III Year II Semester Regular Examinations May 2019 INDUSTRIAL ENGINEERING & MANAGEMENT

(Mechanical Engineering) Time: 3 hours Max. Marks: 60 (Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I "Management is the art of getting things done through and with the people", 1 a 6M Comment b Describe the organizational structures. 6M OR State and describe the Fayol's principles of management. 2 6M b Describe the Maslow"s Hierarchy of human needs. 6M **UNIT-II** Define plant layout and discuss its objectives. 12M Differentiate between process layout and product layout. 12M UNIT-III What measurements are to be done in a stop watch time study? Discuss briefly how they 12M are done? OR What is standard time? Describe briefly the steps involved in arriving at standard time 12M beginning with observed time **UNIT-IV** a Describe the different inventory models. 6M With the help of neat diagram explain the following terms:(i) Order Quantity (ii) Lead 6M Time (iii) Safety Stock (iv) Re-Order Point OR a Derive the formula for determining number of production runs and optimum lot size to 8 6M be manufactured. b Derive the EOQ formula for the manufacturing model with shortage. 6M UNIT-V What are the differences between Variables & attributes in sampling plans? Explain. 12M OR 10 Explain in detail about P and C charts. 12M

*** END ***