R16/SS

Reg. No:

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 x 12 = 60** Marks)

UNIT-I

1 a   "Management is the art of getting things done through and with the people",
       Comment   6M
   b   Describe the organizational structures.   6M

OR

2 a   State and describe the Fayol"s principles of management.   6M
   b   Describe the Maslow"s Hierarchy of human needs.   6M

UNIT-II

3 Define plant layout and discuss its objectives.   12M

OR

4 Differentiate between process layout and product layout.   12M

UNIT-III

5 What measurements are to be done in a stop watch time study? Discuss briefly how they
   are done?   12M

OR

6 What is standard time? Describe briefly the steps involved in arriving at standard time
   beginning with observed time   12M

UNIT-IV

7 a Describe the different inventory models.   6M
   b With the help of neat diagram explain the following terms:(i) Order Quantity (ii) Lead
      Time (iii) Safety Stock (iv) Re-Order Point   6M

OR

8 a Derive the formula for determining number of production runs and optimum lot size to
      be manufactured.   6M
   b Derive the EOQ formula for the manufacturing model with shortage.   6M

UNIT-V

9 What are the differences between Variables & attributes in sampling plans? Explain.   12M

OR

10 Explain in detail about P and C charts.   12M

*** END ***