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

**B.Tech II Year I Semester Regular Examinations Feb-2021**

**MANAGEMENT SCIENCE**

(Common to CSE & CSIT)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Define Management. Describe nature and importance of Management. 6M  
b Explain the principles of Management as outlined by Henry Fayol's. 6M

**OR**

- 2 a What do you mean by Departmentation? Evaluate any three methods of Departmentation. 6M  
b Examine line & staff organization structure. What are its Merits and Demerits? 6M

**UNIT-II**

- 3 a Discuss and Explain the various types plant layout with suitable examples. 8M  
b Illustrate the objectives of Purchasing Function and its Purchasing Procedure. 4M

**OR**

- 4 a Explain the functions of marketing. 7M  
b What is distribution? Explain the process of channels of distribution. 5M

**UNIT-III**

- 5 a Define HRM. Explain and its functions. 6M  
b Define training? Explain the types of the job training methods. 6M

**OR**

- 6 a What are the steps involved in setting up grievance redressal machinery? 5M  
b Briefly Discuss the methods of Performance Appraisal. 7M

**UNIT-IV**

- 7 a Examine the concept of corporate planning. Discuss the essential steps in corporate planning through a flow chart. 6M  
b Explain SWOT analysis and its components by taking an industry example. 6M

**OR**

- 8 a Differentiate between PERT and CPM. 6M  
b A small engineering project consists of six activities. The three times estimates in number days for each activity are given below. 6M

Activity	1-2	2-3	3-5	5-6	1-4	4-5
$t_o$	2	1	0	7	3	2
$t_m$	5	1	6	7	3	8
$t_p$	8	1	18	7	3	14

**Find out:**

1. Calculate the values of expected time ( $t_e$ ), and S.D variance ( $v_i$ ) of each activity
2. Draw the network diagram and mark on each activity
3. Calculate EST and LFT and mark them on the network diagram
4. Calculate total slack for each activity
5. Identify the critical path and mark on the network diagram
6. Probability of completing project in 25 days.

**UNIT-V**

- 9 a Elaborate the how modern concepts like JIT, MRP, Six Sigma changed the production environment. **6M**
- b Discuss Management Information System (MIS) and How it works in an organization. **6M**

**OR**

- 10 a What is Business Process Outsourcing? Explain its types and benefits. **6M**
- b What is Bench Marking and how does an organization derive benefit from such initiatives? **6M**

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