

Model Question Paper**COURSE:** M.TECH.**BRANCH:** Manufacturing Science & Engineering**SEMESTER:** 1 .**SUBJECT:** Manufacturing Management**Note: Attempt all questions.****1. Attempt any four parts of the following.****5x4 = 20**

- A. What is critical path? Why it is so important in project scheduling and control explain with suitable examples?
- B. What is break even analysis? How does this analysis help in the process of make or buy decision?
- C. What do you mean by acceptance sampling? Define various types of sampling with like-
 - (i)-Single sampling plan.
 - (ii)-Double sampling plan
 - (iii)-Multiple sampling plans.
- D. What are the methods of sales promotion? Explain with example?
- E. Explain the types of material Handling technique
- F. Explain the method of forecasting .

2. Attempt any two parts of the following.**10x2=20**

- A. Mention the objectives of network scheduling. Bring the difference between PERT and CPM?
- B. Determine the order of processing. Explain the processing n jobs through 2 machines by Johnson's algorithm?
- C. What is critical path? Why it is so important in project scheduling and control explain with suitable examples?

3. Attempt any two parts of the following.**10x2=20**

- A. Rs 2000 component are required for an assembly line. This component is available at the rate of Rs.5 per piece in the market. If the same component is to be manufactured in the factory itself, the fixed cost will be Rs 3000 and the variable cost will be Rs 2 per piece .Decide whether to make or buy
- B. Define the strategies of scheduling. Explain the forward scheduling and backward scheduling with suitable examples? Discuss the importance of ordinary differential equation on Modern control system theory.
- C. What is the primary function of production planning? Discuss the major problems associated with production and planning?

4. Attempt any two parts of the following.**10x2=20**

- A Define method study and motion study. Discuss the role of methods engineer in raising the industrial productivity?
- B. What are the factors that are considered for selecting a site for an industrial unit? How important is plant location to productivity?
- C. Discuss the position of work study department in the organizational structure of a manufacturing unit?

5. Attempt any two parts of the following.**10x2=20**

- A. Describe the objective and different types of method study and why method study is important for manufacturing unit?
- B. Describe the Comparison of plant location with suitable example?
- C. What are the objectives of material handling? Enumerate the guiding principles of material handlings?