

Cluster Innovation Centre  
End Semester Examination – Dec-Jan 2023-24

Name of the Course: B. Tech

Name of the Paper: Efficient manufacturing process: Production and Operations Management

Paper Code: 32867504

Semester: Vth

Duration: 2 Hrs

Maximum Marks: 40

Instructions to the candidates:

Attempt four questions from the following. Each question carries equal marks.

1. Explain Operations Management and its scope. What are the recent trends in Operations Management? 10 Marks
2. Imagine you are heading a production department of a movie featuring virtual reality and animations. Enumerate what all processes you take into consideration to develop this type of movie till its final release to the viewers? 10 Marks
3. Explain role of JIT (Just-in-Time) in inventory management with an appropriate illustration. 10 Marks
4. What is a facility layout? What are the inputs to the layout? Also discuss its types. 10 Marks
5. Define inventory management. What are five principles of inventory management? 10 Marks
6. Write short notes on: 10 Marks
  - a. Total Quality Management (2.5 Marks)
  - b. Lean (2.5 Marks)
  - c. DMAIC (2.5 Marks)
  - d. PDCA cycle (2.5 Marks)

Plan Do Study Act  
Design Measure Analyse Improve  
Control

ABC  
JIT

Lead

ABC Analysis  
Storage  
Ordering  
Tool

Time  
Management