

Student Roll No: _____

GANPAT UNIVERSITY
M.Tech. Sem. IIInd Mechanical (AMT)
CBCS Regular Examination Nov/Dec-2015
3ME302 World Class Manufacturing

Time: 3 Hrs]

[Total Marks: 60

Instructions:-

1. Attempt **all** Questions.
2. Figure to the **right** indicate full marks.
3. Answers to the two section must be written in **separate** drawing papers
4. Assume suitable data if **necessary**.
5. Draw neat sketch wherever essential.

SECTION – I

- Q.1** (A) Supply Chain Integration in – Push & Pull Strategies (3)
(B) Explain A supply chain strategy framework (3)
(C) What is concurrent Engineering? Why Concurrent Engineering required? Explain difference between linear process and Concurrent Engineering with example. (4)

OR

- Q.1** (A) What is supply chain management? What is the importance of supply chain management? (4)
(B) Which are the Major obstacles in supply chain management (3)
(C) What are the external and internal conditions influencing strategy. (3)

- Q.2** (A) Explain Operation Strategy models (3)
(B) What is Operation Strategy? How operation strategy helpful in world class manufacturing. (4)
(C) Explain the Components of a SCM (4)

OR

- Q.2** (A) Explain the case study of Toyota production system by using lean manufacturing. (4)
(B) Enlist the Lean Tools & Supporting Strategies and explain Visual Control and Problem solving strategies (4)
(C) How Just in Time approach help in world class manufacturing. Explain with one case study. (3)

- Q.3** **Attempt all the Questions.** (9)
(A) Interface between operations and marketing function.
(B) What is 5S? How 5S useful in world class manufacturing.
(C) What is Quality Function Deployment (QFD) in concurrent Engineering

SECTION - II

- Q.4 (A) What is Benchmarking? State its objectives and explain key performance indicator. (5)
(B) Explain activity based management with the help of example. (5)

OR

- Q.4 (A) Explain traditional costing system with respect to ABM. (5)
(B) Explain various forms of Benchmarking with examples. (5)

- Q.5 (A) What is the need of theory of constraints (TOC)? Explain with some example. (4)
(B) Give a difference between CPM and CCPM with respect to theory of constraints (TOC). (4)

OR

- Q.5 (A) Give a difference between activity based management (ABM) and activity based costing (ABC). (4)
(B) Explain Deming Awards & Malcom Baldrige National Quality Award criteria for an organization. (4)

- Q.6 **Attempt all the Questions.** (12)
(A) What are the steps for implementation of successful Benchmarking?
(B) Discuss the importance of Six Sigma, Theory of Constraints and TQM.
(C) What are the objectives of Benchmarking? Explain key performance indicator of Benchmarking.

