

Maharshi Karve Stree Shikshan Samstha's

Smt. Hiraben Nanavati Institute of Management & Research for Women

INTERNAL EXAMINATION – Sem II – (Jan- July 2026)

SUBJECT –:Toyota Production System

SUBJECT CODE – OSCM 662 MJ- Date : 11-05-2026
Pattern : 2024

Duration : 150 min

Max Marks : 50

Instructions for students :

- Marks are indicated for each question.
 - Handwriting should be eligible for evaluation.
 - Marks will be given for quality, not quantity.
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Q.1 Solve any Five out of Eight. (10 Marks)

- a) Define Toyota Production System (TPS).
 - b) What is Lean Production?
 - c) Define Heijunka.
 - d) What is Value Stream Mapping?
 - e) Define Kanban approach.
 - f) What is Visual Control in TPS?
 - g) State any two wastes eliminated in TPS.
 - h) Define Benchmarking.
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Q.2 Solve any Two out of Three. (10 Marks)

- a) Explain the Toyota Production System and discuss the TPS House Diagram.
 - b) Differentiate between Toyota Production System and Lean Production.
 - c) Discuss Operational Excellence as a strategic weapon in manufacturing organizations.
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Q.3 Solve any Two out of Three. (10 Marks)

- a) Explain the 14 Principles of the Toyota Way with suitable examples.
 - b) Discuss continuous process flow and pull systems in Toyota Production System.
 - c) Explain the significance of lead time and techniques used to reduce lead time.
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Q.4 Solve any Two out of Three. (10 Marks)

- a) Explain the role of leadership in implementing Manufacturing Philosophy in organizations.
 - b) Discuss the importance of standardization, visual control and reliable technology in TPS.
 - c) Explain consensus-based decision making and development of exceptional teams in Toyota Way.
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Q.5 Solve any One out of Two. (10 Marks)

- a) Discuss how organizations can transform themselves using the Toyota Way and Continuous Improvement philosophy.
- b) Explain Lean Manufacturing with reference to Lean vs Agile Manufacturing, Sustainable Manufacturing and Cultural Issues in Lean implementation.