

**P.E.S. College of Engineering, Mandya - 571 401**

(An Autonomous Institution affiliated to VTU, Belagavi)

Sixth Semester, B.E. - Industrial and Production Engineering**Semester End Examination; August- 2023****World Class Manufacturing**

Time: 3 hrs

Max. Marks: 100

Course Outcomes*The Students will be able to:**CO1: Understanding the marketing and its management and Marketing Information System.**CO2: Describing the distinguished the customer and business Markets and their behavior.**CO3: Explaining a product, service and related strategies.**CO4: Proposing pricing and distribution strategies.**CO5: Composing the suitable promotion system and using the online marketing system.***Note: I) PART - A is compulsory. Two marks for each question.****II) PART - B: Answer any Two sub questions (from a, b, c) for a Maximum of 18 marks from each unit.**

Q. No.	Questions	Marks	BLs	COs	POs
I : PART - A		10			
1 a.	List any 2 types of waste and their elimination method that we use in Hall's framework.	2	L2	CO1	PO1
b.	List the key components of barcoding system.	2	L2	CO2	PO1
c.	Define benchmarking and its purpose.	2	L1	CO3	PO1
d.	What is business process reengineering?	2	L1	CO4	PO1
e.	Write any two benefits of DFSS.	2	L2	CO5	PO1
II : PART - B		90			
UNIT - I		18			
2 a.	Explain the concept of Gunn's model of world-class manufacturing.	9	L2	CO1	PO1
b.	Write a note on:				
	i) Avoid false trade off	9	L3	CO1	PO1
	ii) Process orientation				
c.	Explain the practices of world class manufacturing with its model.	9	L2	CO1	PO1
UNIT - II		18			
3 a.	Briefly explain how you create a data collection plan?	9	L2	CO2	PO1
b.	List information management tools and explain SQC in detail.	9	L1,2	CO2	PO1
c.	With a neat block diagram explain the process of FMS.	9	L1	CO2	PO1
UNIT - III		18			
4 a.	Explain Five phases of benchmarking process.	9	L2	CO3	PO1
b.	Briefly explain business processes that are linking to goals with its tree diagram.	9	L2	CO3	PO1
c.	How do you Refine the initial list briefly explain.	9	L1	CO3	PO1

UNIT - IV**18**

- 5 a. Explain in brief business process Re-engineering. 9 L2 CO4 PO1
- b. Design a Framework for business excellence using Baldrige and Deming's award. 9 L4 CO4 PO1
- c. Write a note on ISO 9000-2000. 9 L1 CO4 PO1

UNIT - V**18**

- 6 a. Explain DMADV method of Six Sigma. 9 L2 CO5 PO1
- b. Differentiate between traditional costing and activity based costing. 9 L4 CO5 PO1
- c. What is the different powerful set of tools that helps to achieve the goal by theory of constraints and explain five focusing steps process? 9 L1 CO5 PO1

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