Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		MBA(1 D) -	SEMIESTER-I	I EXA	VIINATION – W	IN 1 ER 2019		
Subject Code: 1529303						Date: 27-12-2019		
Subj	ect N	ame: Glol	oal Operations	s Man	agement			
Time	2: 2.30) PM to 5.30	PM		O	Total Marks	: 70	
Instru	ctions	•						
	2. I 3. I	Figures to the	e assumptions who e right indicate ful					
Q.1	Explain the following terms:						14	
	(a) MRP			(b)	PERT			
	(c) Horizon		ntal Integration	(d)	JIT			
	(e) Taguchi Concept		(f)	Six Sigma				
Q.2	(a)	-	xplain Importance of Operations Management with due focus on ten key ecisions to be taken by Operations Manager.					
	(b)	Project control should always focus on the critical path" Critically examine the statement.						
					OR O			
	(b)	Activity	Time (Days)		ecessor		07	
		A	1	-	$\mathbf{A}\mathbf{X}$			
		В	4	A	VO . V			
		С	3	A				
		D	7	A				
		E	6	В				
		F	2	C,D				

4 Draw the critical path Diagram.

9

Show the early start and early finish and late start and late finish time.

G,H

D

Show the Critical Path.

Η

Η

- Plant Location has critical contribution in effective production target Q.3 07 achievement. Discuss this statement considering factors affecting location decisions.
 - (b) List out and explain various types of Plant Layouts with suitable examples. 07 OR
- Explain Capacity Planning and various measures to evaluate Capacity Q.3 (a) **07** Planning.
 - (b) Discuss the concept of mass customization which combines the flexibility **07** of a process focus with the efficiency of product focus.
- TQM Emphasis on Quality that encompasses the entire organization from **Q.4 07** (a) supplier to customer. Discuss various concepts for an effective TQM.
 - (b) Aggregate Planning is usually to meet forecast demand while minimizing 07 cost over the planning period. Discuss various Aggregate Planning option's advantages and disadvantages.

O.4 (a) Write a note on Kanban.

07 07

(b) JIT enables to achieve competitive advantage. Write a detailed note on same.

Q.5 (a) CASE STUDY:

Harley-Davidson, Inc. is the fifth biggest player in the global motorcycle market. Established in 1903, the company is known for manufacturing heavyweight motorcycles. For example, the company focused on motorcycle enthusiasts, especially those who are interested in the chopper biking culture. However, as its mission statement now indicates, Harley-Davidson now offers more products. The mission statement shows the company's aims and approaches to develop its business. Also, Harley-Davidson's vision statement emphasizes leadership in stakeholder management. Harley-Davidson's vision statement is as follows: "Harley-Davidson, Inc. is an action-oriented, international company, a leader in its commitment to continuously improve our mutually beneficial relationships with stakeholders (customers, suppliers, employees, shareholders, government, and society). Harley-Davidson believes the key to success is to balance stakeholders' interests through the empowerment of all employees to focus on value-added activities."

Harley-Davidson's operations management (OM) ensures that the company maintains effective and efficient business activities to support resilience and competitiveness. Harley-Davidson's managers must determine the best options for the 10 strategic decision areas of operations management. These 10decisions cover the key business areas that involve suitable operations management approaches. To optimize the productivity of its facilities, Harley-Davidson continues to develop its operations management practices to suit evolving business needs. For instance, motorcycle designs are regularly tested to determine satisfaction of customers' expectations and regulatory requirements.

Harley-Davidson motorcycles are known for their unique and handcrafted designs. In this strategic decision area of operations management, the company's objective is to support its brand image based on available resources. This brand image emphasizes Harley-Davidson motorcycles' quality and high —end chopper design. The company aims to maximize output quality that matches the Harley-Davidson brand image and customers' expectations. The company has strict requirements for suppliers to ensure high quality motorcycles. The strategic decision always involves high quality and new technologies. Optimal production process is an objective in this decision area.

At Harley-Davidson, operations managers automate processes for maximum efficiency in producing motorcycles and related products. Also, the company's production facilities address demand and cost considerations in the global market. Most of Harley-Davidson's authorized dealers are located in town and city centres. Many of these dealers are involved in deciding the location of the dealerships. Thus, Harley-David son's operations management addresses this strategic decision area through partially decentralized decision-making for dealership locations. In addition, the locations of the company's warehouses are based on the locations of authorized dealers to optimize the transportation efficiency of Harley-Davidson motorcycles and related products.

For company-owned facilities like motorcycle production buildings, Harley- Davidson's operations management approach for this decision area involves traditional models adjusted to suit the facility's purpose. Also, a standardized set of layout design requirements are implemented for authorized Harley-Davidson dealerships. Harley-Davidson maintains a Supplier Diversity policy and ensures optimal productivity and capacity of its supply chain based on the availability of a wide variety of suppliers. Operations managers focus on inventory adequacy and timeliness. Harley-Davidson addresses these concerns through automated inventory monitoring in company-owned facilities. The company also has an online system for orders and requests involving authorized dealers. Harley-Davidson has streamlined schedules for its business activities. Harley-Davidson addresses such concern through automated schedules for the supply chain and orders involving authorized H-D motorcycle dealers. Traditional operations management approaches are also used for scheduling employees' activities at Harley - Davidson's offices. Harley - Davidson's motorcycle production processes are standardized with redundancy measures. For example, the company coordinates the activities of production facilities, which minimize stockouts by supporting each other during demand peaks. Harley-Davidson also has maintenance teams for buildings and equipment.

- (a) What are the 10 strategic decisions in Operations Management? Briefly explain each.
 (b) Discuss how Hardley Davidson addresses decision related to Design of goods and services.

 OR
- **Q.5** (a) Evaluate Layout related decisions by Hardley Davidson.
 - (b) Discuss presance of Hardly Davidson in India and location related strategy. **07**

07