

**MS - 53**

**Management Programme**

**ASSIGNMENT**  
**For**  
**January 2023 and July 2023 Sessions**

**MS - 53: Production/Operations Management**

**(Last date of submission for January 2023 session is 30<sup>th</sup> April, 2023  
and for July 2023 sessions is 31<sup>st</sup> October, 2023)**



**School of Management Studies**  
**INDIRA GANDHI NATIONAL OPEN UNIVERSITY**  
**MAIDAN GARHI, NEW DELHI – 110 068**

## ASSIGNMENT

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<b>Course Code</b>	<b>:</b>	<b>MS - 53</b>
<b>Course Title</b>	<b>:</b>	<b>Production/Operations Management</b>
<b>Assignment Code</b>	<b>:</b>	<b>MS - 53/TMA/JAN/2023</b>
<b>Coverage</b>	<b>:</b>	<b>All Blocks</b>

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**Note: Attempt all the questions and submit this assignment to the Coordinator of your study centre. Last date of submission for January 2023 session is 30<sup>th</sup> April, 2023 and for July 2023 session is 31<sup>st</sup> October, 2023.**

1. What do you mean by my input-transform-output process in production/operations management? Develop Input – Process - Output block diagram for the following.
  - a. Bank
  - b. Hospital
  - c. Restaurant
  - d. University
  
2. What is capacity planning? Discuss the aspects and determinants of capacity planning with suitable examples.
  
3. Discuss various qualitative methods of forecasting.
  
4. Hip Replacements, Inc. has a master production schedule for its newest model, as shown below, a setup cost of `50, a holding cost per week of `2, a beginning inventory of 0, and a lead time of 1 week. What are the costs of using lot-for-lot for this 10-week period?

<b>WEEK</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
Gross requirements		0	0	50	0	0	35	15	0	100	0
Scheduled receipts											
Projected on hand	0	0	0	0	0	0	0	0	0	0	0
Net requirements		0	0	50	0	0	35	15	0	100	0
Planned order receipts				50			35	15		100	
Planned order releases			50			35	15		100		

5. What is Just-in-Time production? How does it differ from Manufacturing Resource Planning (MRP)? What is MRP-JIT system?