

**VPM's**  
**DR VN BRIMS, Thane**  
**Programme: PGDM (2015-17)**  
**Third Trimester Examination April 2016**  
**Q-Paper Set-1**

<b>Subject</b>	<b>Operations Management-II</b>		
<b>Roll No.</b>		<b>Marks</b>	<b>60 Marks</b>
<b>Total No. of Questions</b>	<b>7</b>	<b>Duration</b>	<b>3 Hours</b>
<b>Total No. of printed pages</b>	<b>2</b>	<b>Date</b>	<b>22/04/2016</b>

**Note: Q1 is compulsory and solve any FOUR from the remaining SIX questions.**

**Q1) 20 Marks (Compulsory)**

a) The following Table gives the average and range in kilograms for tensile tests on an improved plastic cord. Based on the data, determine the trial central line and the upper and lower control limits. -10 marks

Subgroup No	$\bar{X}$	$\bar{R}$	Subgroup No	$\bar{X}$	$\bar{R}$
1	476	32	8	496	23
2	466	24	9	488	24
3	484	32	10	482	26
4	466	26			
5	470	24			
6	494	24			
7	486	28			

b) The viscosity of a liquid is checked and recorded as follows at regular interval of one hr. The readings are provided below:

Time	Reading	Time	Reading
0	39	6	36
1	42	7	35
2	38	8	38
3	37	9	39
4	41	10	34
5	40	11	32

Calculate the Mean, Median, Mode of the viscosity values and draw a graph showing the variation of the readings with time. -10 marks

**Attempt Any FOUR from the Remaining SIX Questions**

**Q2) Any two from (a) or (b) or (c) ————— (5x2) = 10 Marks**

Describe briefly the roles played by Gurus in the Quality movement. Explain the main contribution of the following

- a) Juran
- b) Deming
- c) Ishikawa

**Q3) Any two from (a) or (b) or (c) ————— (5x2) = 10 Marks**

What is the significance of the idea called “Pillars of Quality. How will you apply to the following situations:

- a) Producing a film
- b) Publishing a book
- c) Organizing a college cultural event

**Q4) Any two from (a) or (b) or (c) ————— (5x2) = 10 Marks**

Describe the important features of the Quality Management System in the ISO-9000 standard. Explain the following:

- a) Quality Objectives and Policy
- b) Process View
- c) Quality documentation

**Q5) Any two from (a) or (b) or (c) ————— (5x2) = 10 Marks**

Describe the main characteristics of the following:

- a) Job shop
- b) Batch Process
- c) Continuous process

**Q6) Any two from (a) or (b) or (c) ————— (5x2) = 10 Marks**

What are the main objectives of Inventory control?. Explain briefly the following

- a) Safety Stock
- b) Economic Order Quantity
- c) Material Requirement Planning

**Q7) Any two from (a) or (b) or (c) ————— (5x2) = 10 Marks**

Write short notes on the following

- a) Fixed Layout
- b) Types of Inventory
- c) Continuous Improvement.

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