VPM's DR VN BRIMS, Thane

Programme: MMS (2015-17)
Second Semester (Operations) Examination April 2016

Subject	TQM		
Roll No.		Marks	60 Marks
Total No. of Questions	7	Duration	3 Hours
Total No. of printed pages	2	Date	25.04.2016

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

Q1) 20 Marks (Compulsory)

a) Implementation of TQM technique to reduce accidents

The organization is a mini steel plant and well known for its commitment to the implementation of the TQM principles and practices. The organization has been able to sustain its profits and performance in the face of intense completion in the global and the Indian steel industry. The objective was to take up a focused project using continuous quality improvement methodology for reduction in burn injuries due to splashes in the steel casting section of the organization.

The project was selected by the quality control council to learn the root cause of the accidents and take preventive actions to eliminate the same the team appointed by the council was from across all functions in the company which did the detailed study of all the past data and after pareto analysis reached the consensus that the main problem of accident was burn injuries on account of the splashes in the steel casting section. To solve the problem, the team put forward various theories through Ishikawa diagram and also interviewed those involved in the accident. Apart from this, various related equipments were standardized which were directly used by the concerned people and the dos and don'ts were mentioned in Hindi and Marathi whenever this work was conducted. To follow up the project, audit of process at regular intervals was institutionalized.

i Explain the learning points of the case. Explain the critical success factor of the organization. (10 marks) ii. b) Match the following: (5 marks) 1. Inspection a) Phillip. B. Crosby Quality 2. Assurance b) Joseph Juran 3. Quality is fitness for use Prevention C) 4. Quality is conforming to specifications d) Quality features of a Product 5. Serviceability Detection e) c) Fill in the blanks: (5 marks)

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is a n	naturity framework that focuses on continuously im-
proving the management and dev	velopment of the human assets of an organization.
The principle of	is to prevent errors in the processes and
making them human independent	t .
organiz	ze the work of Six Sigma Black Belts and provide
Black Belts with the necessary ba	acking at the executive level
Variation due to Differenc	es among machines is an example of
causes	
	is a reproving the management and deverage and the principle of organized and the principle of organized and

v)	are useful for monitoring quality and giving early			
•,	warnings that a process may be going "Out of Control"			
	mpt Any FOUR from the Remaining SIX Questions Write short notes on <i>Any two from (a) or (b) or (c) ——— (5x2) = 10 Marks</i>			
a) b) c)	DMAIC 5S for Workplace improvement Quality Guru: Contribution of Ishikawa			
Q3)	Any two from (a) or (b) or (c) ———— $(5x2) = 10 \text{ Marks}$			
a) b) c)	Explain why employee empowerment is important? Discuss gap model of Quality in services What is Quality circle and what are the benefits of it to the organizations			
Q4)	Any two from (a) or (b) or (c) ———— $(5x2) = 10 \text{ Marks}$			
a) b) c)	Explain what is PCMM? Explain Double sampling plan by showing the statistics with an example. What are the different elements of TQM? Also explain Total Quality Control.			
Q5)	Any two from (a) or (b) or (c) ———— $(5x2) = 10 \text{ Marks}$			
a) b) c)	What do you understand by Pull system and discuss its merits and demerits. Explain the term Operating Characteristics curve. With the help of neat diagram. How TQM plays important role in the organizations performance?			
Q6)	Write short note on Any two from (a) or (b) or (c) ———— $(5x2) = 10$ Marks			
Poka	n's Triology a yoke den cost of Quality			
Q7)	Any two from (a) or (b) or (c) ———— (5x2) = 10 Marks			
a) b) c)	Explain What is JIT and lean manufacturing? Explain the term 7 different wastage MUDA. Find the probability of acceptance for the following data obtained in a single sampling			

c) Find the probability of acceptance for the following data obtained in a single sampling plan: N, Lot size =10,000; Sample size n= 50; number of defective items permitted c= 4and Fraction or Percent defective p= 0.01.

a)b)c)