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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



III SEMESTER M.TECH END SEMESTER EXAMINATIONS, MAY /JUNE 2016

SUBJECT: Construction Quality Management [CIE 570] REVISED CREDIT SYSTEM

Time: 3 Hours 12/05/2016 MAX. MARKS: 50

Instructions to Candidates:

- * Answer any **FIVE FULL** questions.
- Missing data may be suitable assumed.

1A.	Differentiate any SIX quality elements between Quality management and TQM.								
1B.	Briefly explain any four Quality gurus opinion concerning quality								
1C.	What is cost of Quality? Explain with a neat sketch the Economic conformance model.								
2A.	Explain the different components of TQM axioms.								
2B.	What is a Flow chart? In an assembly plant paint defects were found to be as follows: Defect Dirt in sag Orange Thin Sealer scratch Off- other type paint peel paint under colour No of 65 21 12 5 4 2 2 1 defects Construct a pareto chart and find out which type of defect would be considered as the	04							
2C.	highest priority Explain any two steps involved in preparing a CQMP.								
3A.	Write a short note on Kaizen. Explain any two applications of Kano model.								
3B.	Mention any five differences between Quality Control and Quality Assurance								
3C.	What are-the advantages of SPC? During a production process total number of defectives were found to be 175. Compute, p _{avg} and control limits assuming sample size of 15 and n=100. Management wants to develop a p-chart using 3-sigma limits								
4A.	Explain process capability analysis with an example showing all the indices								
4B.	Write a note on the hierarchy of measurement framework								
4C.	What is a Run chart? A construction firm received an average of 15 complaints per month last year. In November they received 20 complaints Management sets an acceptable level at 2. It costs the company \$75 directly per complaint to correct the problems. They determined the cost in lost sales to be \$150. Total cost per complaint: \$200. Determine the quality loss function.								
5A.	Explain any two tool used for Design development Mention the barriers involved in implementing Six sigma principles.								

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5B.	Define the term "house of Quality". Mention any five benefits of using Quality Management systems	04
5C.	Are ISO 9001 and QMS the same? Justify.	02
6A.	Explain the PDCA cycle for ISO 14001environmental management systems	
6B.	Write a short note on (i) Human resource policies (ii) Pyramid of change	04
6C.	Mention any four FEIGENBAUM philosophy on Quality control.	02

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