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Question Paper Code: 49723

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Mechanical Engineering

14UME923 - TOTAL QUALITY MANAGEMENT

140ME923 - 101AL Q	UALII I MANAGEMENI
(Regula	tion 2014)
Duration: Three hours	Maximum: 100 Marks LL Questions
Allswei Al	LL Questions
PART A - (10	x 1 = 10 Marks)
1. Which of the following is responsible for	quality objective?
(a) Top level management(c) Frontline management	(b) Middle level management(d) All the above
2. TQM does not imply	
(a) Strong external customer orientation	on (b) Partnership with vendors
(c) Meticulously re-stocking defective	products (d) Training
3. Quality assurance is a function responsible	le for
(a) Controlling quality(c) Inspections	(b) managing quality(d) removal of defects
4. Drawing control charts requires	
(a) Calculation of statistics from data	(b) Adjusting the machines
(c) Team work training of workers	(d) Top management involvement

5. Which of the following is not considered a cost of non-conformance to quality?

(b) Rework

(d) Process control

(a) Scrap

(c) Expediting

- 6. The term "benchmarking" means
 - (a) Comparing with past data from your organization
 - (b) Comparing with the results of a market survey
 - (c) Comparing with the results of a customer survey
 - (d) none of these
- A sampling plan helps in
 - (a) Keeping the process in control

- (b) Keeping workers motivated
- (c) Rejecting lots that are of unacceptable quality (d) Tuning the machines

- A Pareto chart shows
 - (a) That the process is in control
- (b) The vital few from the trivial many

(c) Process capability

- (d) A line drawn as production proceeds
- 9. In the matrix management organization, which of the following is true
 - (a) The project manager is responsible for employee skills improvement
 - (b) The functional manager is responsible for employee skills improvement
 - (c) The project manager is responsible for the employee's annual appraisal
 - (d) The employee is responsible for his or her own skills improvement
 - 10. ISO 9002 requires
 - (a) Getting production and inspection/installation methods certified
 - (b) Team deliberations for quality
 - (c) Certification for services
 - (d) Constantly holding meetings with customers

PART - B (5 x
$$2 = 10 \text{ Marks}$$
)

- 11. Why TQM is important?
- 12. List the key elements of supplier partnering
- 13. State the principles of Pareto analysis
- 14. Define process capability ratio
- 15. Give the ISO 9000 Series of Standards.

PART - C (5 x 16 = 80 Marks)

16 (a) Write the fourteen principles of Deming's Philosophy for improving quaproductivity.	lity and (16)					
Or						
(b) Discuss the prerequisites for TQM. Also explain the common be implementation of a TQM programme in an industry.	arriers to the (16)					
17. (a) (i) Briefly explain Employee Involvement.	(08)					
(ii) Briefly explain 5s housekeeping Techniques.						
Or						
(b) Discuss the concept of continuous process improvement and the employee involvement.	e benefits of (16)					
18. (a) Briefly examine seven traditional tools of quality.	(16)					
Or						
(b) Explain the process of Bench marking.	(16)					
19. (a) Discuss the concept of quality function deployment and list the major b	penefits. (16)					
Or						
(b) Explain Quality function Deployment.	(16)					
20. (a) Discuss the concepts and benefits of ISO 14000.	(16)					
Or						
(b) The applicability of TQM has limitations? Do you agree with this statem	nent? Can					
TQM be implemented in service sectors? Discuss with suitable case studi	ies. (16)					