Marks:75

20M

Paper / Subject Code: 90715 / Quality Management System (R-2019) SP Code: 1002242

Time: 3 Hours Q. 1 Attempt all multiple-choice questions (MCQ) Sr No Questions **Options** Which from the following is Globalization 1 important for implementation of TQM in organization? Growing social status Employee Involvement C Research Funding d 2 Process capability = $\pm 6\sigma$ $\pm 3\sigma$ $\pm 3\sigma/2$ $\pm 6\sigma/3$ benchmarking focuses **Process** assessing competitive 3 positions through comparing the products and services of other competitors Strategic C Performance Retrospective Cost incurred to detect defects to appraisal Cost assure conformance to quality standards is prevention cost c internal failure cost external failure cost type of customers are Need based less in numbers but promote more sales and profit as compared to other customers and are completely satisfied. Loyal b Impulsive c

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6	Reducing waste, preventing mistakes, lowering costs etc. are the major benefits of	a	Quality management systems
		b	cGMP
		c	ISO 14000
		d	ICH Q10
7	Functional benchmarking involves:	a	benchmarking your competitors.
		b	benchmarking global competitors in
		c	your industry. benchmarking organizations with
			regards to specific business activities or processes
		d	benchmarking other multinational firms with similar corporate strategies or similar customers
8	The data driven approach using statistical methodology for eliminating defects is known as	a	six sigma
		b	McKinsey 7s
		c	operational excellence
		d	OOT
	The should include an expectation to comply with applicable regulatory	a	Quality System
9	requirements and should		
	facilitate continual improvement of the pharmaceutical quality system.		
		ь	Quality program
		C	Quality planning
		d	Quality policy
10	Time involved in ISO certification for large organization ismonths	a	6-8
		b	12-15
		C	20-22
		d	8-12

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11	A performance metric that helps to evaluate the progress or achievement of a specific objective	a	Key performance indicator
		b	Critical performance key
		c	Performance index
		d	Key result area
		-	
12	The alternative name for Pareto chart is	a	Scatter diagram
		b	80:20 rule
		С	Run rule
		d	Control rule
		51 ¹ ¥	
	As per ICH guidelines, stress	a	75%
	testing has to be carried out on a		
12	single batch of the drug		
13	substance, at stated temperatures		
	and relative humidity equal to or		
	more than		
		b	70%
		С	80%
		d	65%
		-	
	The level of effort, formality,	a	Level of risk
	and documentation of the QRM	ŭ,	Ecver of fish
14	process should		
	•		
	commensurate with the	b	Number of employees in QA
			- · ·
		c ·	Importance of product to management
		d	Number of steps in product
			manufacturing
	ICH guideline for stability	a	Q3 (R2)
	testing of new drug substances		
5			
	and products is		
		b	Q8 (R2)
		c	Q1A (R2)
		d	Q9 (R2)

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16	Which of the following is not a benefit of QbD approach?	a b c d	Minimize deviation and costly investigations Avoid regulatory compliance problem Reduce inventory Eliminate batch failures
17	Which of the following is hard element of McKinsey 7s model?	a	Staff
		b c d	Style Skill System
18	Which of the following is correct flow for benchmarking process?	b	Integration, Action and monitoring.
19	Which of the following is Tru for Six –sigma system?	e	a The lower the sigma no defects at all
			 b The higher the sigma, the higher the defect c The lower the sigma, the fewer the defect d The higher the sigma, the fewer the defect
20	Quality metrics measurements of products, services and process	are of es.	 a price and quality b value and performance c quality and shelf life d durability and aesthetics

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Q 2. Attempt any Two question

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- Enlist risk management tool and show schematic representation of an overview of quality risk management process and explain the same in detail.
- ii) Define OOT and OOS. Explain how tracking of OOT can avoid OOS. Enlist the different phases in OOS investigation as per US FDA guidelines.
- iii) What is Total Quality Management and its concept? Explain in Brief tools used in Root cause analysis.

Q 3. Attempt any Seven questions

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- i) Write a brief note on customer behavior
- ii) Explain the terms:
 - a) Quality manual
 - b) Operational excellence
- iii) Explain the causes for recall of a product. Classify Recalls based on the category of risks with their timelines.
- iv) Elaborate on the stability testing of drug products as per ICH guidelines with special mention of the products intended for storage in refrigerator.
- v) What is meant by Statistical control charts? State the advantages for the same
- vi) Write a Detail note on McKinsey 7s model
- vii) Define benchmarking. Enlist nine types of benchmarking and elaborate any three types.
- viii) Write a note on Change Management.
- ix) Explain in detail compliance thought development of quality culture

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