Paper / Subject Code: 90718 / Quality Management System (R-2019) (Lyn. I (Sep. of))

Time! 3 Hours

Total Markat 75

## Q. 1 Attempt all multiple-choice questions (MCQ)

Sr No	The state of the s		
1	CER 21 B Questions	Trouting &	Options
	CFR-21 Part 11 is related to:	Merchanica e A	Medical Device Regulations
		<u> </u>	Food Safety Standards
		Q	Blectronic Records and Signatures
		eronieros pareiros (1	Environmental Impact Assessment
2	Process capability is a measure of:	Description of the second	
	is a mousting of;	A	Employee productivity
		b	The ability of a process to produce conforming products
		C	Marketing offectiveness
- William Committee of the Committee of		d	Raw material availability
3	One of the advantages of benchmarking is:	8	Decreased Awareness of Industry Trends
		b	Limited Access to Externa Knowledge
		0	Enhanced Adaptability to Changes
		d	Isolation from External Practices
4	What distinguishes customer delight from customer satisfaction?	a	Satisfaction is a one-time occurrence
	1	b	Satisfaction is achieved through cos
		C	Delight is achieved by exceeding customer expectations
		d	Delight is solely based on produc
5	Which of the following is an example of an appraisal cost in the cost of quality?	a	Employee training programs
		b	Scrap and rework costs
		С	Product testing and inspection
		d	Warranty repairs
6	Which of the following is a leading quality metric in manufacturing?	a	Customer Satisfaction Score
		b	Return on Investment
		С	On-time Delivery
T. 1		d	Employee Attendance Rate
7	What is the primary objective of regulatory compliance in Quality Management?	a	Maximizing Profit
1 1 1 1		b	Ensuring Legal Conformity
		С	Reducing Employee Turnover
		d	Accelerating Production Speed

			1	The second secon
	In 18O 9001 2015, which clause for the "Leadership" of an organization			Clause 4
			1 6	1001-200 property commenced and property and a second and
		PROCESSIONS	C	CONTROL CONTRO
- Aller - Alle			d	Clause 7
The second secon	In the context of quality, what does the dimension of "Durability" refer to?		a	The consistency in meeting specific standards
		il a mat war areas	b	The presence of additional feature beyond basic functionality
			C	The ability of a product to withstan wear, stress, and environmental conditions
		e Parish a Character and the sec	đ	The appearance and feel of the product
10	What role does the Quality Manager Review play in achieving Operation Excellence?	nent onal	а	Avoiding Customer Feedback
		e e e	b	Identifying Opportunities for Improvement
			THE PERSON NAMED IN	
* * HORAL SALES CO.				Ensuring Cost Reduction
				Ensuring Cost Reduction Implementing Short-Term Fixes
11	According to Genichi Taguchi's Lo Function, what happens when a product of process deviates from the target or idea value?	SS 8	d .	
Name of the last o	process deviates from the target or idea	SS 8	d d	Implementing Short-Term Fixes  Gradual increase in quality costs
Name of the last o	process deviates from the target or idea	ss a	d d	Implementing Short-Term Fixes  Gradual increase in quality costs  inear decrease in quality costs
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	Management, what is the initial step in the	٨	Risk Control
SAME POST	treek insufficient bureaut; in the in the		
		h	Risk assessment
		6	Risk review
15			Risk marking
**	In developing a tablet formulation using QSD, what could be consistent.	Siestingers en	IN CONTROL OF THE PROPERTY OF
3 (1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	QbD, what could be considered a Critical Quality Attribute (CQA)?	***	Employee Training
		b	Dissolution rate
		e	Package size
16	Why is Quality Risk Many	d	Tablet color
	invortant in the pharmacourt of	A	To ignore variations in manufacturing
	important in the pharmaceutical industry?		processes
		b	To enhance decision-making and ensure product quality
mattered ordered beautiful principes		O.	To avoid regulatory compliance
THE PARTY OF THE P		d	To minimize any form of risk
17	All of the following are 7S elements in the McKinsey model except	A	Strategy
	and the second s	Ъ	Structure
		0	Sales
		d	Shared Values
18	Company X is interested in comparing its		Control of the second s
	production efficiency with that of its direct competitors. Which type of benchmarking is Company X employing?	a	Financial Benchmarking
		ь	Process Benchmarking
		C	Performance Benchmarking
		d	Strategic Benchmarking
19	T		
19	In response to a batch failure due to a deviation in the manufacturing process, what could be a suitable Corrective Action as part of CAPA?	a	Implementing a new product variant without further investigation
		b	Minimizing documentation to expedite the process
		c	Updating the employee training program to address the specific deviation
		d	Ignoring the deviation and proceeding with the batch release
20	NABL is associated with the accreditation of:	a	Manufacturing Plants
		ь	IT Companies
		c	Laboratories
		d	Hospitals

Q 2. Attempt any Two question

- i) Elaborate on how QbD principles contribute to a systematic and science-based approach process development.
- ii) Discuss the key components of the Six System Inspection model and quality systems it pharmaceutical quality management.
- iii) Explain the core principles and implementation of Total Quality Management and how the contribute to organizational excellence.

Q 3. Attempt any Seven questions

- i) Discuss how the alignment of strategy, structure, systems, and shared values contributes effective quality management.
- ii) Enumerate the principles underlying the six signia process? Discuss any one example of six sigma process.
- iii) Discuss the importance of vendor qualification in pharmaceutical manufacturing
- iv) Explain the critical aspects of drug stability testing as outlined in the ICH quidelines for drug substances.
- v) Define SPC and discuss how SPC helps in early detection of deviations and continuous improvement.
- vi) Explain the concept of cost of quality and its various categories.
- vii) Explain Benchmarking Process and discuss the limitations of it in Quality management system.
- viii) Give the differences between deviations, Out of Specifications (OCS), and Out of Trans (OOT) occurrences in pharmaceutical manufacturing.
- ix) Enlist types of benchmarking and explain the reasons for benchmarking