Exam Date & Time: 29-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences, MAHE, Manipal B. Pharm VI Semester End Semester Examination June-2022 Sub code: PQA-BP606T

Sub title: Pharmaceutical Quality Assurance

	Sub title. Pharmaceutical Quality Assurance	
	Pharmaceutical Quality Assurance [PQA-BP606T]	
Marks: 75	Duration: 180	mins
	I Multiple Choice Questions (MCQs)	
Answer all	the questions. Section Duration: 30	min:
1)	MFR is prepared by	
,] ,,,
	Production 1) Research & Regulatory Company Company Company Research & Regulatory Research & Company Company Research & Company Research & Research &	(1)
	Supervisor 2) development 3) anans chairman	
2)	All the Product Quality Complaints shall be investigated jointly with QA, F&D and	
	Manufacturing within days of the receipt of the complaint.	(1)
	1) 7 2) 3 3) 5 4) 10	
3)	An audit performed by an organization on itself is	
3)	An addit performed by an organization on itself is	1 (1)
	1) External 2) A third- 3) Internal 4) A second	(1)
	audit party audit party audit party audit	
4)	Documented verification of a proposed design ability to meet the requirements it needs to fulfil is called as	
	needs to runn is caned as	(1)
	1) Design 2) Installation 3) Operational 4) Performance 4	
	qualification 2 qualification 3 qualification 4 qualification	
5)	The closeness of agreement between the value that are accepted either as conventional true values or an accepted reference value and the value found is called	
		(1)
	1) Specificity 2) Range 3) Accuracy 4) Precision	
6)	What is the importance of validation?	
	Increase Reduce P. 1	
	the 2) Reduction in batch 4) Increase the batch	(1)
	product product rejections failures	
7 \	cost quality rejections randes	
7)	Store the pH bulb/electrode in saturated solution of	(1)
	1) KCl 2) NaCl 3) H ₂ SO ₄ 4) NH ₄ Cl	(*)
3)	URS stands for	
	Union User User Utility	(1)
	1) Requirement 2) Requirement 3) Regional 4) Requirement	(1)
	Specification Specification Specification	

9)	Prospective validation is performed on at least successive production-size
	1) Five 2) Three 3) Two 4) Six
10)	ISO stands for
	Indian 1) standard for organization for standard 2) Internal organization for standard 3) International organization for standard 4) Indian society for organ
11)	Northern Europe, Canada, Russia comes under
	1) Climatic zone II 2) Climatic zone III 3) Climatic zone IV (4) Climatic zone IV
12)	Recommended storage condition for ZONE IV A countries is
	1) $\begin{vmatrix} 30^{0}\text{C}/65\% \\ \text{R.H} \end{vmatrix}$ 2) $\begin{vmatrix} 30^{0}\text{C}/75\% \\ \text{R.H} \end{vmatrix}$ 3) $\begin{vmatrix} 30^{0}\text{C}/45\% \\ \text{R.H} \end{vmatrix}$ 4) $\begin{vmatrix} 20^{0}\text{C}/75\% \\ \text{R.H} \end{vmatrix}$
3)	The main objective of ISO 9000 is
	1) Profit making 2) Customer Satisfaction 3) Skill enhancement 4) To avoid Environmental issues
14)	Accelerated stability studies conditions for Drug substance intended for storage in a refrigerator
	$ \begin{vmatrix} 35^{\circ}C \pm \\ 1) & 2^{\circ}C/60\% \pm \\ 5\% & 2 \end{vmatrix} $
15)	Role and responsibilities of a Qualified personnel is defined in
	1) GMP Chapter-2 2) GMP Chapter-1 3) GMP Chapter-12 4) GMP Chapter-5
6)	One of following test is used to differentiate four types of glasses
	Water attack test 2) Hydrolytic resistant test 3) Powdered glass test 4) Autoclaving (1)
7)	In Powdered glass test, volume of 0.02N sulphuric acid consumed should not be
18)	more thanml for Type-III Glass
	1) 1.5 2) 15 3) 0.5 4) 8.5
	In the self-sealability test for rubber, Pierce captimes with hypodermic needle at different sites.
	1) 10 2) 15 3) 5 4) 12
9)	All precision instruments should be before used for routine analysis
	1) Checked 2) Maintained 3) Calibrated 4) Authenticated
20)	A valid standard operating procedure should be identified by
	1) Documentation number 2) Signature 3) Title of the 4) Scope of the

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II Long Answers

Answer all the questions. Comment on the factors influencing air change rate in pharmaceutical industry. 1) (10)a. Enlist and explain the various characteristics that should be considered during 2) Analytical Method Validation (7 Marks) (10)b. Write the scope of performance qualification (3 Marks) III Short Answers Answer all the questions. Draw and explain a quality documentation pyramid 1) (5)What contents should be included in Master Formula Record explain with details? 2) (5)Discuss in detail about ISO 14000 certification process. 3) (5)List and explain the advantages and challenges of QbD implementation in the 4) (5)pharmaceutical sector List the points to be considered while purchasing equipments 5) (5)Explain the principle, procedure and limit for reducing substance test for rubber 6) (5)closures. Explain the functional elements of non-clinical laboratory study protocol 7) (5)