Enrollment No: _____ Seat No: _____

PARUL UNIVERSITY **FACULTY OF PHARMACY**

B. Pharm. Summer 2022-23 Examination

Semester: 6 Date: 26/04/2023

Subject Code: BP606T Time: 10:00am to 1:00pm

Subject Name: Quality Assurance Total Marks: 75

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	ructions:				
	gures to the right indicate maximum marks.				
2. M	lake suitable assumptions wherever necessary.				
O 1	Multiple Choice Questions (MCQs) (1 Mark Each)		(20)		
_	The objective of ISO-9000 family is		(20)		
1.	a) Customer satisfaction	b) Employee satisfaction			
	c) Skill enhancement	d) Environmental issues			
2	Which of the following is not a tool of QbD?	d) Environmental issues			
۷.	a) Design of Experiment	b) Risk assessment			
	c) Process Analytical Technology	d) Quality targeted product profile			
3	Stability Data for Climatic zone III & IV comes under				
	a) Q1C	b) Q1D			
	c) Q1E	d) Q1F			
	Which Guideline has to be followed for Analytical pro	, -			
4.		-			
	a) Q14	b) Q3			
_	c) Q2	d) Q4			
Э.	The size of airborne particles that serves as a parameter for environmental monitoring and				
	classification of clean rooms include	1.) > 0.10			
	a) $\geq 0.5 \ \mu \text{m}$ and $\geq 5.0 \ \mu \text{m}$	b) $\geq 0.10 \ \mu \text{m} \text{ and } \geq 15.0 \ \mu \text{m}$			
_	c) ≥0.87 μm and ≥50.0 μm	d) $\geq 1 \mu m$ and $\geq 15.0 \mu m$			
0.	To approve or reject starting, packaging material is a				
	a) Head of QC department	b) Head of Production department			
7	c) Head of QA department d) Head of Packaging department				
1.	Adequate space should be provided for logical and or	• •			
	a) Raw materials	b) Equipments			
0	c) Packaging Materials	d) Spare parts			
8.	Materials used for construction of equipment should be				
	a) Raw material	b) API			
0	c) Products	d) All of the above			
9.	For ampoules Container/Closure integrity test which				
	a) 1% scarlet green	b) 1% erythrosin			
10	c) 1% methylene blue	d) all of these			
10.	Which of the following is the test to check the Chemic	_			
	a) Arsenic test	b) Thermal resistance test			
11	c) Powdered glass test	d) Leakage test			
11.	In GLP, it is prescribed that study director should be a				
	a) Doctor	b) Pharmacist			
	c) Scientist	d) None of these			
12.	The principles of GLP suggested by OECD in which year?				
	a) 1978	b) 1980			
	c) 1981	d) 1990			
13.	The primary documentation to be reviewed in technic	al investigation stage of complaint handling			
	involves				
	a) Complaint files and the batch records	b) Name, address, phone number and email of			
		customer			
	c) Complaint sample	d) Reserve samples			

14.	An audit performed by an organization on itself is					
	a) Internal audit	b) Second party audit				
	c) A third party audit	d) None of the above				
15.	A written data related to distribution of drug products from the manufacturer to the distributor is a					
	a) Distribution record	b) Validation protocols and reports				
	c) Technical transfer reports	d) Audit plans				
16.	Written records involving a drug product shall be maintained for at leastyear from the					
	expiration date of the drug product.					
	a)One	b) Five				
	c)Three	d)Ten				
17.	Physical dimension of equipment and accessories-comes under which qualification?					
	a) Design Qualification	b) Installation Qualification				
	c) Operational Qualification	d) Performance qualification				
18.	Which reagent is used to check control of absorbance in calibration of UV spectrophotometer?					
	a) Potassium dichromate solution	b) Toluene in hexane				
	c) Potassium chloride	d) Sulphuric acid				
19.	If product has to be formulated with higher dose, it wi	ll undergo:				
	a) Prospective validation	b) Retrospective validation				
	c) Revalidation	d) Concurrent validation				
20.	The degree of closeness amongst all agreements called	as				
	a) Range	b) Linearity				
	c) Accuracy	d) Precision				
_	2 Long Answers (any 2 out of 3) (10 Mark Each) (20					
1.	Discuss ICH QSEM guidelines. Explain ICH stability Guideline in detail.					
2.	Discuss responsibility of key personnel in Pharmaceutic	cal industry and study director & QA person in				
	GLP.					
	Write a note on MFR. Explain in detail Analytical meth	od validation.				
_	Short Answers (any 7 out of 9) (5 Mark Each) (35)					
	What is QbD? Discuss Elements of QbD.					
	Discuss utilities and maintenance of sterile area.					
3.	Explain maintenance and purchase specification of Equipments.					
4.	Expalin Quality control test for conatiners.					
5.	Write in detail about protocol for Conduct of a nonclinical Laboratory Study.					
6.	Explain about Quality audit, Quality Review and Quality documentation.					
7.	Write a note on complaints and Evaluation of complaints.					
8.	Write in detail about Good warehousing practice.					
9.	Define calibration and Qualification. Explain Qualification of Equipments.					