## Librarian Learning Resource Centre Acharya Institutes

## GBGS SCHEME

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i) Customer Satisfaction

ii) Quality Management System.

18BT81

(05 Marks)

(05 Marks)

## Eighth Semester B.E. Degree Examination, July/August 2022 Regulatory Affairs in Biotech Industry

Time: 3 hrs. Max. Marks: 100 Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 1 a. Explain in detail about FDA operations and Industry Compliance Regulations. (10 Marks) b. Write a short note on the following: i) Good Manufacturing Practice (05 Marks) ii) Good Laboratory practice. (05 Marks) OR Describe the process of validation. (10 Marks) Explain the following: i) IQ, OQ and PQ (05 Marks) ii) ISO 9000. (05 Marks) Explain in detail about validation of water and thermal systems. (10 Marks) b. Explain the following: i) Validation of Aseptic APIs (05 Marks) ii) Validation of Non-sterile processes. (05 Marks) OR Write in detail about FDA and ICH Guidelines. (10 Marks) b. i) What is limit of detection in FDA? Explain. (05 Marks) ii) State the process control for HPLC. (05 Marks) Module-3 Write note on: i) Management Responsibility in ISO (05 Marks) ii) Document and Data control (05 Marks) b. State i) Quality Audits (05 Marks) ii) Statistical Techniques (05 Marks) OR Mention the importance of i) Quality Management System. (05 Marks) ii) Documents Requirements. (05 Marks) Write note on: i) Environmental Management Systems (05 Marks) ii) ISO 14001 (05 Marks) Module-4 State a.

	b.	Explain the following:	(05 Marks)
		i) Quality policy	
		ii) Quality control.	(05 Marks)
		OR	
8	a.	Explain in detail about quality characteristics and preventive action.	(10 Marks)
	b.	Explain the following:	
		i) Corrective action	(05 Marks)
		ii) Final Inspection and Testing.	(05 Marks)
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		Module-5	
0	a.	Write notes on	
)	a.	i) The "V" model and Life cycle model	(05 Marks)
		ii) Risk analysis Techniques.	(05 Marks)
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	b.	Explain:	(05 Marks)
		i) FMEA	(05 Marks)
		ii) Risk Management in the Pharmaceutical Industry.	(05 1(141110)
		OR	
			(10 Marks)
10	a.	Explain in detail about Solid Dose Manufacture principles and practices.	(10 Marks)
	b.	Write a short notes on:	(05 Mayles)
		i) Liquid and Cream Manufacture principles	(05 Marks)
		ii) Quality and continuous improvement in Biotech Industry.	(05 Marks)

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