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Seat No.:		Enrolment No	Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph SEMESTER- VII • EXAMINATION – WINTER -2020			
	Code:2270002 Date: 04/01/2021 Name: Pharmaceutical Technology- I	l		
Tim Instru 1. 2.	e: 1(uction Atto Q.7 Mal	D:30AM To 12:30PM Total Marks: 54	l	
Q.1	(a) (b) (c)	Describe preparation methods for water for injection and list quality control tests. Describe various sources of contamination. Discuss its preventive measures. Write a short note on lyophilized products.	06 05 05	
Q.2	(a) (b) (c)	Discuss aseptic techniques. Draw efficient layout of parenteral production unit. Describe various containers & closures used in parenteral packaging. Write a short note on parenteral nutrients.	06 05 05	
Q.3	(a) (b) (c)	Enlist methods for improvement solubility, Describe any two. Write a brief note: Suspending agent, emulsifying agent. Explain in brief : i) extracts ii) tincture iii) infusion iv) Gels	06 05 05	
Q.4	(a) (b) (c)	Describe different aerosol formulations. Write pharmaceutical applications of aerosols. Discuss factors influencing drug penetration from semisolid bases through skin with mechanism. What is propellant? Describe various parts of aerosols pack.	06 05 05	
Q.5	(a) (b) (c)	Enlist various suppositories bases describe individuals characteristics. Discuss formulation composition of Shampoo and conditioners Explain Validation. Describe validation of Autoclave.	06 05 05	
Q. 6	(a) (b) (c)	Write a note on baby care products, hygienic products Discuss various methods for aerosols filling. Write composition with its characteristics of skin -Sunscreen, moisturizers.	06 05 05	
Q.7	(a)	Give Brief HVAC requirement as per schedule M for manufacturing premises. OR	06	
	(a)	Discuss Labeling conditions as per GMP. OR	06	
	(a)	Write in brief Manufacturing records for pharmaceuticals.	06	

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