Enrolment No.

Subject Name: Product Development and Technology Transfer

Subject Code: MQA104T

GUJARAT TECHNOLOGICAL UNIVERSITY M.PHARM - SEMESTER-1 EXAMINATION - SUMMER-2019

Date: 04/06/2019

Time: 02:30 PM TO 05:30 PM Total Mark Instructions:			
2.	Mak	empt any five questions. ke suitable assumptions wherever necessary. ares to the right indicate full marks.	
Q.1	(a) (b) (c)	Explain product registration guidelines according to CDSCO Write a short note on Polymorphism. What is an Aseptic packaging system? What are advantages and types of Aseptic packaging systems?	06 05 05
Q.2	(a) (b) (c)	What are the difference between NDA and ANDA? Explain Documentation in technology transfer. Which are the different opportunities and challenges of new era of drug product?	06 05 05
Q.3	(a) (b) (c)	Write a short note on SUPAC for non-sterile semisolid dosage form including creams. During product development how stability testing occurred? What is Pilot Plant design? Give layout of pilot plant scale up.	06 05 05
Q.4	(a) (b) (c)	Give format and content of IND in detail. Describe optimization and production of technology transfer. Describe packaging materials and common testing method used for medical device packaging.	06 05 05
Q.5	(a) (b) (c)	Briefly explain Quality control test for container, closure and secondary packaging materials. What is solubility? Describe methods of increasing solubility. Briefly explain large scale manufacturing techniques of parenteral dosage form.	06 05 05
Q. 6	(a)(b)	What is Technology Transfer? Discuss steps involved in technology transfer process. Discuss different steps involved in clinical research Process for Drug Discovery and Development.	06
Q.7	(c) (a) (b) (c)	What is Preformulation? What are objectives and principle of preformulation? Discuss qualitative and quantitative models of technology transfer. Describe different types of pharmaceutical packaging materials. Write a Short note on BACPAC.	05 06 05 05
