Registration No:			
Total Number of Pages : 01 M.Pharm			
MPA103T 1 st Semester Regular Examination 2019-20 PHARMACEUTICAL VALIDATION BRANCH : ANALYSIS & QUALITY ASSURANCE, PHARMACEUTICAL ANALYSIS Max Marks: 75 Time : 3 Hours Q.CODE : HR717 Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from Part-C. The figures in the right hand margin indicate marks.			
Q1	a) b) d) e) f) g) h) j)	Part-A Only Short Answer Type Questions (Answer All-10) Define Calibration? Mention its significance. What is the meaning of Qualification? Differentiate copy right and related rights with suitable examples. Write down the advantages of Validation? What is Clean in place. Mention the advantages. Which phase is called as "valley of death" in technology transfer and why? What is Change control? Enlist four compressed air used in pharmaceutical industries What do you mean by GI. Mention its significance. What is pH meter and its range?	(2 x 10)
Q2	a) b) c)) e) f) h) i)	Part-B Only Focused-Short Answer Type Questions- (Answer Any SEVEN out of NINE) Explain Validation Master Plan. Give and account Qualification of Electronic Balance. Write short note on technology Transfer. Give An Account On HVAC System. Differentiate between calibration and validation with examples. Illustrate the significance of 21 CFR. Explain Types of Patent application. Analyze qualification of GC? Justify the penalties for Violation of IP Protection?	(7 x 5)
Q3		Part-C Only Long Answer Type Questions (Answer Any TWO out of FOUR) Describe Qualification of HPLC with its Applications.	(10)
Q4		Write in detail about validation of analytical method as per ICH Guidelines.	(10)
Q5		What is IPR and factors affecting IP protection? Add a note on types of IPR.	(10)
Q6		Explain Pharmaceutical waters and Pure Steam with examples?	(10)