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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 1 EXAMINATION – WINTER -2019

Subject Code: 2210003Date: 03-01-2020Subject Name: Pharmaceutical Analysis-ITime: 10:30 AM TO 01:30 PMTime: 10:30 AM TO 01:30 PMTotal Marks: 80Instructions:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.2. Figures to the right in disets full months			0
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3. Q.1	(a) (b) (c)	 Discuss neutralization curve in acid base titration. Define Errors and explain classification of errors and minimization of errors. Write comment on: Buffered conditions is required in complexometric titration. Acetic acid is a leveling solvent as well as differentiating solvent. 	06 05 05
Q.2	(a) (b) (c)	Explain theories of acid base indicators. Briefly discuss principle and steps involved in gravimetric analysis. Write a short note on Mohr's method.	06 05 05
Q.3	(a) (b) (c)	Derive Henderson-Hasselbach equation for pH determination. Write a note on Karl-Fischer titration. i). Justify "EDTA is used as a chelating agent in complexometric titrations". ii). Differentiate Iodometric and Iodimetric titrations.	06 05 05
Q.4	(a) (b) (c)	Write a short note on different types of EDTA titrations. Discuss the estimation of calcium gluconate. What is validation? Explain all validation parameters.	06 05 05
Q.5	(a) (b) (c)	Discuss solvents used in non-aqueous titration. Write a short note on Volhard's method of precipitation titration. Briefly discuss potassium permanganate titration.	06 05 05
Q. 6	(a) (b) (c)	What is hydrolysis? Derive equation for finding pH of aqueous solution of salt of weak acid and strong base.Write a note on common ion effect.Define: Standardization, Buffer, Co-precipitation, Post precipitation. pH.	06 05 05
Q.7	(a) (b) (c)	Write basic Principle, methods and application of diazotisation titration. Discuss at length titrants used in non-aqueous titration. Enumerate types of redox titration and explain any one in detail.	06 05 05
