GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-I • EXAMINATION - SUMMER-2016

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Subject Code: 22100	03		Date: 27/5/2016

Subject Name: Pharmaceutical Analysis-I

Time: 02:30 pm – 05:30 pm Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define following terms – 1) Accuracy, 2) Precision, 3) Validation, 4) Quality Assurance	06
	(b)	5) Quality Control, 6) LOQ and LOD What is sampling? Explain Sampling techniques and hazards during sampling of drugs?	05
	(c)	Define Errors and explain classification of errors and minimization of errors.	05
Q.2	(a) (b)	Explain Kjeldahl Method. Define standardization and explain primary and secondary	06 05
	(c)	standards. Give the reasons 1) Use of pyridine in karl fischer reagent. 2) Why methanol is added in Karl Fischer reagent.	05
Q.3	(a)	1) Law of mass action, 2) Ionization of water	06
	(b) (c)	Explain the hydrolysis of salts obtained from WA and SB. Define Indicators and explain theories of indicators.	05 05
Q.4	(a)	What is redox titration? Explain redox indicators.	06
	(b) (c)	Differentiate iodometry and iodimetry. Explain sodium nitrite titration.	05 05
Q.5	(a)	Define precipitation titration. Explain the Fajan's method used for detection of end point in precipitation titration.	06
	(b) (c)	Solvents used in non-aqueous titration. Write the application of non-aqueous and complexometric titration.	05 05
Q. 6	(a)	 Masking and demasking agent Write the principle behind the assay of Mg stearate 	06
	(b)	Write the principle used behind complexometric titration? Define Ligands and classify it.	05
	(c)	pM Indicators	05
Q.7	(a)	What is gravimetric analysis? Explain advantage, disadvantage and application of gravimetric analysis.	06
	(b) (c)	Explain – Co-precipitation Define following terms 1) Normality, 2) Molarity, 3) Titration, 4) Thermogravimetry 5) Equivalent Point	05 05
