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FACULTY OF PHARMACY

M. Pharmacy (Phar.Analysi.) I – Semester (PCI) (Main & Backlog) Examination, January 2019

Subject: Advanced Pharmaceutical Analysis

Time: 3 Hrs Max.Marks: 75

Note: Answer any five questions. All questions carry equal marks.

1	,	Define Impurity and give the classification of impurities in new drug substances.	5
	D)	Explain the guidelines for reporting and control of elemental impurities in new drug products.	10
2	a)	Describe the FDA/ICH guidelines for reporting levels of impurities in residual solvents.	10
	b)	Write short note on qualification of degradation products.	5
3	,	Explain the factors affecting stability of drug substance and drug products. How do y perform photo stability of formulations?	10 5
4	a)	Write abt differe nt analytical techniques used in characterization of degradants.	10
	b)	What is impurity profiling and give its importance in testing of pharmaceutical products.	5
5	,	What are accelerated stability studies and how do y calculate shelf life of drug	10 5
6	a)	ite abt the following Enzyme immunoassay Optical Immunoassay	8
7	a)	Describe the principle and procedure involved in the biological assay of oxytocin.	8
	b)	What are antitoxins? Give biological assay of Tetanus antitoxin.	7
8	a)	Discuss the different polymerase chain reaction studies for gene expression.	8
	b)	Explain the different steps involved in production of antibodies.	7
