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FACULTY OF PHARMACY

M. Pharmacy (Pharm. Chemistry) II-Semester (PCI) (Main) Examination, August 2019

Subject: Pharmaceutical Process Chemistry

Time:	3 Hrs Max. Mark	s: 75
	Note: Answer any five questions. All questions carry equal marks.	
1	(a) Explain in detail validation of Large scale process.(b) Write a note on case studies of APIS in scale up process.	(7) (8)
2	(a) Write a note on factors affecting crystallization.(b) Write a note on types of types of extraction.	(6) (9)
3	(a) Write the kinetics, mechanism and types of halogenations reactions.(b) Explain types of oxidation reactions and nonmetallic oxidizing agents.	(8) (7)
4	(a) Explain the production of Vitamins.(b) Discuss the case study on Industrial reduction process.	(8) (7)
5	(a) Write a detailed note on ISO-14001.(b) Discuss abt effluents and management system in industrie s.	(8) (7)
6	(a) Explain abt aerobic and anaerobic fermentation with examples.(b) Write the mechanism of aromatic nitration and process equipment for technical nitration.	(6)
		(9)
7	(a) Write a note on characteristics of expedients rtes, cost effective rtes, reagent selection for scale up.(b) Explain hydrogen transfer reactions in reduction.	(9) (6)
8	(a) Write the importance of OHSAS. (b) Write a detailed note on Azeotropic distillation.	(8) (7)