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## FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutics) I-Semester (PCI) (Suppl.) Examination, August 2018

Subject:	Modern	Pharma	ceutics
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Time: 3 Hrs Max. Marks: 75 Note: Answer any five questions. All questions carry equal marks. 1 (a) Explain the methods for testing of drug excipient compatability studies. 6 (b) Describe the preparation of SMEDDS and their evaluation tests. 6 (c) Define factorial design. Describe the applications and limitations. 3 2 (a) Discuss the ICH guidelines for calibration and validation of equipment with an example. 8 (b) Describe the validation of tableting process. 7 3 (a) Discuss the sales forecasting and budget planning in pharmaceutical industries, 8 (b) Describe the layt of buildings, services, equipment and their maintenance in industries. 7 4 (a) What is compaction profile? Explain the phases of compaction profile with a suitable examples. 5 (b) Define the term intrinsic solubility. How to determine? it's significance? 5 (c) Explain the properties of granules effecting the compression behavior of tablets.5 5 (a) Discuss the pharmacokinetic parameters for determination of bioavailability. 5 (b) Describe the comparison of dissolution profiles of dosage forms using similarity and difference factors. (c) Explain the variance and standard deviation with it's significance. 5 6 (a) Describe the methods of evaluation of physical stability of emulsions. 5 (b) Describe the sterilization procedures for evaluation of parenterals. 5 (c) Describe the chi-square distribution. 5 7 (a) Write the methods for determination of the order of a reaction. 8 (b) Explain the photo degradation and it's testing procedure. 7 8 (a) Discuss the methods for improvement of aques solubilty of drugs. 8 (b) Write Heckle equation and draw Heckle plots for porosity and explain them. 7