

Time: 3 Hrs

Code No. 1155/PCI

Max. Marks: 75

## **FACULTY OF PHARMACY**

## M. Pharmacy (Pharmaceutics) I-Semester (PCI) (Main) Examination, February 2018

**Subject: Modern Pharmaceutics** 

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

1 (a) Discuss the different orders of reaction and their applications?

(b) Discuss the production facilities and formulations of parenterals?

2 (a) Discuss the ICH guidelines for calibration and validation of equipment with an example?

(b) Describe the validation of tableting process?

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?

suitable examples?

(b) Define the term intrinsic solubility? How to determine? it's significance?

(c) Explain the properties of granules effecting the compression behavior of tablets?

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(a) Discuss student t-test and it's applications?

(b) Discuss the above collination approaching the compression of the collination of the collina

4 (a) What is compaction profile? Explain the phases of compaction profile with a

(b) Discuss the pharmacokinetic parameters for determination of bioavailability?(b) Describe the comparison of dissolution profiles of dosage forms using similarity and difference factors?

6 (a) Describe the influence of temperature on rate of reaction?

(b) Explain the methods for testing of drug excipient compatability studies?

(c) Describe the preparation of SMEDDS and their evaluation tests?

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7 (a) Describe the preformulation of suspensions?

(b) Explain the ANOVA test?

(c) Describe the sterilization procedures for evaluation of parenterals?

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8 (a) Discuss the methods for improvement of aques solubilty of drugs?

(b) Write Heckle equation and draw Heckle plots for porosity and explain them?

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