Roll No ..

MPY - 104

M. Pharmacy I Semester

Examination, December 2015

Product Development and Formulation

Time: Three Hours

Maximum Marks: 70

Note: i) Answer any five questions.

- ii) All questions carry equal marks.
- Explain the significance of determining partition coefficient and solubility of the drug in preformulation studies.
 - Write a note on excipient-excipient incompatibilities.
- What are the various Techniques to enhance the solubility? Discuss co-solvency and complexation as techniques to increase solubility.
 - Write a note on solid dispersions and their advantages.
- Give procedure and specifications of dissolution test for tablets.
 - Write a detailed note on IVIVC.
- Give procedure and specifications of official quality control tests performed on tablets.
 - Give a detailed account of recent improvements in tablet manufacturing.

- Write a note on ocular inserts, their types and examples.
 - Explain sterilization procedures employed for parenteral formulations.
- Write down advantages and disadvantages of using plastic as packaging material.
 - Describe the evaluation tests performed for glass containers.
- Explain the role of computers in pharmacy. Explain briefly the Computer aided drug formulations.
 - Give an account of ICH guidelines for stability.
- Write a note on any two:
 - Nutraceuticals
 - Determination of shelf life
 - Biodegradable polymers
 - Formulation Additives

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