

Roll No .....

**PY-402****B.Pharmacy IV Semester**

Examination, June 2016

**Pharmaceutics - V****(Dosage Form Design)***Time : Three Hours**Maximum Marks : 70***Note:** Attempt any five questions. All questions carry equal marks.

1. a) Discuss the importance of partition coefficient in pharmaceutical preformulation.  
b) Explain the stages of drug discovery and development process.
2. a) Give a brief account of co-solvents used in pharmaceutical formulation.  
b) Discuss the factors affecting dissolution.
3. a) Give a brief account of biodegradable polymers.  
b) How are pharmaceutical formulations stabilized against oxidative degradation?

4. a) What is the significance of drug-excipient compatibility in Pharmaceutical preformulation.  
b) How are polymers evaluated?
5. a) Give a brief account of dissolution testing conditions for immediate release dosage forms.  
b) Explain the different levels of IVIVC.
6. How do the following differ?  
a) Basket and Paddle type DR apparatus  
b) Lubricants and Glidants  
c) Preformulation and Formulation  
d) Size distribution and Polydispersity
7. Write notes on (any three):  
a) Sink-condition  
b) Mark-Houwink equation  
c) Expiration date  
d) Hydrocolloids

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