

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

Examination, June 2017

**Pharmaceutics-V****(Dosage Form Design)****Time : Three Hours****Maximum Marks : 70****Note:** i) Answer any five questions.

ii) All questions carry equal marks.

1. Discuss the importance of following preformulation parameters in pharmacy.
  - a) Partition coefficient
  - b) Flow properties of powders
2. Write a note on any one:-
  - a) Drug excipient compatibility
  - b) Powder properties
3. Write detailed note on "Ointment bases" or "Suppository bases".
4. Write brief notes on any two.
  - a) Disintegrating agents
  - b) Solvents
  - c) Emulsifying agents
  - d) Switching agents

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5. Write a detail note on biodegradable polymers.
6. Discuss various pharmaceutical applications of polymers in pharmacy. Discuss any two methods for evaluation of polymers.
7. How do you determine the expiry date of pharmaceutical dosage forms, discuss.
8. Answer any four of the following.
  - a) Discuss the importance of preformulation parameter "Polymorphism" in pharmacy.
  - b) Write a brief note on "Preservatives" or "antioxidants"
  - c) Briefly discuss any three properties of polymers
  - d) Name various pathways of drug degradation with suitable examples.
  - e) Give the design of any two dissolution apparatuses.
  - f) Comment on "Dissolution data interpretation".

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