

PY-402(N)

B. Pharm. (Fourth Semester)

EXAMINATION, June, 2010

(New Scheme)

PHARMACEUTICS

(Dosage Form Design)

[PY-402(N)]

Time : Three Hours

Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Write the importance of pKa, dissolution and polymorphism in preformulation study of any drug. 9
(b) Write a brief note on drug-excipient compatibility. 5
2. (a) Discuss the role of antioxidants and preservatives used in pharmaceutical formulations. 7
(b) Write a note on different suppositories bases. 7
3. (a) Write the methods of synthesis of polymers, with a brief account on properties of polymers. 8
(b) Describe the characterization of polymers in brief. 6
4. (a) Discuss the stability testing protocols for various pharmaceutical dosage forms. 7
(b) Write a short note on expiry date and overage calculations. 7

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5. (a) Discuss the various stages of drug discovery and development process.
(b) Write the importance of drug product design.
6. (a) Discuss the design of various dissolution apparatus.
(b) Write mathematical models for prediction of dissolution profile.
7. Write short notes on any *two* of the following :
 - (a) Biodegradable polymers
 - (b) Pharmaceutical factors influencing drug formulation
 - (c) Suspending and emulsifying agents

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