MPY - 104

M. Pharoacy I & II Semester Examination, December 2012

Product Development and Formulation

Time: Three Hours

Maximum Marks: 70

Note: 1. Attempt any live questions.

- 2. All questions carry equal marks.
- 1. a) What do you understand by the term "reformulation studies"? Discuss ciystallinity and polymorphism in detail.
- b) Discuss following preformulation parameters in detail-
- i) Hygroscopicity
- ii) Particle size
- iii) Partition coefficient
- iv) Dissolution
- 2. a) Discuss following techniques of solubility enhancement-
- i) Hydrotropic solubilization.
- ii) Surfactant solubilization.
- iii) Cosolvency.
- b) Write a note on neutraccuticals.
- 3. Give a detailed account on ophthalmics.
- 4. a) How do you compute the expiry period of formulations, discuss? Write a note on stability indicating assay methods.
- b) Write a note on packaging materials.
- 5. a) rfbwdoyou classilypol Tncrs? Hatareihcirapplicaiioos in pharmacy?
- b) Write notes on bibdcgradable polymers
- Discuss any five types of additives in detail (following): 6
- i) Antioxidants.
- ii) Suspending agents
- iii) Preservatives .
- iv) Suppository bases
- v) Buffcringagents
- vi) Emulsifying agents
- vii) Organoleptic agents
- 7. Write exhaustive notes on optimization techniques.
- 8. Write short notes on any three
- i) DissolWion testing.
- ii) Pilot plant state ufljdtfcniquc.
- iii) Dtssolutibndam-ittlerpretation iv) Evaluation of Boating tablets and multilayer tablets.
- iv) Tests of containers and closures.

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