



BL-3104

Seat No. _____

M. Pharm. (Sem. II) Examination

March / April - 2014

**PY20101 : Novel Drug Delivery System
Part-I**

(Core Elective - IV)

Time : 3 Hours]

[Total Marks : 70

- Instructions :**
1. Attempt any five questions out of seven
 2. Make suitable assumptions wherever necessary with figure and table.
 3. Figure to right indicate full marks.

1. (a) Discuss factors affecting drug release from osmotic drug delivery systems. **7**
- (b) Enlist approaches use to deliver intact molecule to the colon and explain pH dependent approach in detail. **7**
2. (a) Describe recent innovations in Meter dose inhaler. **7**
- (b) Discuss various approaches of delayed release capsule technology. **7**

3. (a) Discuss various approaches for parenteral DEPOT formulations. 7
 - (b) Discuss novel technology in implants 7
 4. (a) Enlist recent innovation of particle coating. Discuss Fluid bed coating. 7
 - (b) Write a short note on "coacervation phase separation" particle coating method. 7
 5. (a) Note on mechanism of ion exchange resins in taste masking. 7
 - (b) Which categories of drug are suitable for Gastro retentive drug delivery system. 7
 6. (a) Describe primary, secondary & tertiary packaging. 7
 - (b) Write a note on child resistant packaging. 7
 7. (a) Discuss recent innovations in emulsions 7
 - (b) Discuss role of packaging materials in improving stability of pharmaceuticals by giving suitable example. 7
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