

Subject Code: B4203/R10

IV B.Pharmacy II Semester Advanced Supple. Examinations July - 2016

CONTROLLED RELEASE AND NOVEL DRUG DELIVERY SYSTEMS

Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

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1. (a) Describe dissolution controlled drug delivery systems with examples.
(b) Explain the approaches of altered density systems. [10+5]
2. (a) Mention the advantages and limitations of transdermal patches.
(b) Discuss the different evaluation tests of transdermal drug delivery systems. [5+10]
3. (a) Explain the different methods of analyzing mucoadhesion.
(b) Write about the theories of mucoadhesion. [8+7]
4. (a) Discuss the different evaluation tests of liposomes.
(b) Write the applications of resealed erythrocytes. [10+5]
5. (a) Enumerate the process of ANDA submission.
(b) Explain Indian CDSCO and US FDA. [7+8]
6. Define Quality control. Explain the procedures used for controlling manufacturing of drugs. [15]
7. (a) Write an account on records specified in schedule- M.
(b) Write a note on CFR 21 Part 210 of USFDA. [5+10]
8. (a) Define validation. Explain the different sampling procedures used in cleaning validation.
(b) Describe analytical method validation. [8+7]
