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**B. Pharmacy (Eighth Semester) Examination,  
April-May 2017**

(New Course)

(Pharmacy Branch)

**PHARMACEUTICS - XII**

(Pharmaceutical Technology - III)

*Time Allowed : Three hours*

*Maximum Marks : 70*

*Note : Attempt any five questions. Each question carries equal marks.*

1. Define controlled drug delivery systems. Classify CDDS and describe evaluation of controlled release formulations. 14

2. Define micro capsules. How many methods available for microencapsulation. Discuss phase separation coacervation method. 14

3. What are the main components of transdermal drug delivery system? Write evaluation of pressure sensitive adhesive. Describe applications of transdermal drug delivery systems. 14

4. Classify different method of nano-particle preparations. Write its pharmaceutical applications. Elaborate macro molecules cross linking method for nano-particle preparations. 14

5. Explain osmotically regulated drug delivery system. Describe Rose-Nelson and Higuchi-Leeper osmotic pump with suitable diagram. 14

6. Write short note on the following :
  - (a) Sutures and Ligatures 6
  - (b) Surgical cotton 4
  - (c) Bandages 4

7. Write short note on any two : 4

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- (a) Occuserts
- (b) Application of SEM and TEM in controlled drug delivery
- (c) Differentiate between nanoemulsion and micro-emulsion.

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