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**B. Pharmacy (Eighth Semester) Examination,
April-May 2016**

(New Course)

(Branch : Pharmacy)

PHARMACEUTICS-XII

(Pharmaceutical Technology-III)

Time Allowed : Three hour

Maximum Marks : 70

Note : Answer five questions.

1. What is meant by controlled and extended release dosage forms? How can a controlled release tablet be evaluated? Why carriers are used in drug delivery systems? $3+8+3=14$

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Or

Can any drug be formulated for controlled delivery? Explain the factors to be considered for development and evaluation of a controlled release granule. What is prodrug? $2+8+4=14$

2. Why a drug is microencapsulated. Name four methods used for microencapsulation. Explain how can a microcapsule be evaluated? $2+2+10=14$
3. What is meant by Drug-Targeting? What are methods used to prepare a targeted drug delivery system? Write a note on nanoparticles. $2+3+9=14$

Or

Is there any benefit of delivering a drug through TDDS? If yes, mention. What are the components of a TDDS? Write down the parameters of a TDDS to be evaluated. $3+7+4=14$

4. Distinguish between sustained release and delayed release. Justify 'Making of SR dosage form provides therapeutic advantages.' Name the techniques used to make SR dosage form (Granules). $4+4+6=14$

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Write notes on :

7+7=14

- (a) Osmotic pump
- (b) Occuserts

5. Why a wound is required to be dressed routinely? What are the materials required for dressing of common wound? Define Surgical Gauge, Bandage, Ligature and Catguts.

2+2+10=14

Or,

4+5+5=14

Write notes on :

- (a) Implants
- (b) Liposomes
- (c) Organ Replacement Materials