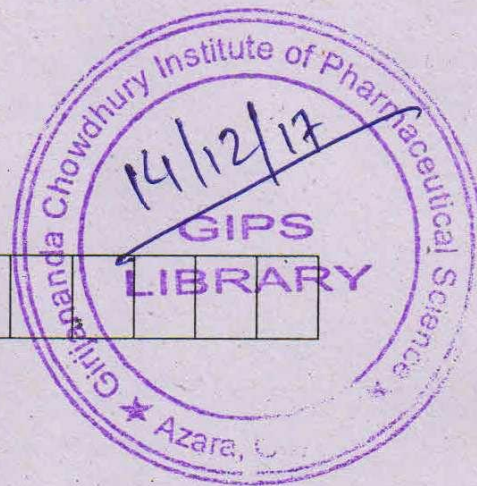


Total No. of printed pages = 3

PY 132709E2

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2017

B.Pharm. 7th Semester End-Term Examination

ADVANCED PHARMACEUTICS – ELECTIVE -2

Full Marks – 100

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer question No. 1 and any *six* from the rest.

1. Answer all questions : (10 × 1 = 10)
- (a) Give examples of some thermosensitivity polymer.
 - (b) What is a smart polymer?
 - (c) Define dendrimers.
 - (d) What is Thecuwes and Bayne relationship between therapeutic index and dosing interval?
 - (e) What are the three useful mechanisms of zero order drug release rate?
 - (f) Name one each of the commonly used component in microemulsion.

[Turn over

(g) Name the water insoluble coating materials used for microencapsulation.

(h) What is lacrisert?

(i) What is Franz diffusion assembly?

(j) What is leaching?

2. Define polymer. Classify them with suitable examples. Discuss two hydrophilic cellulose derivatives used as drug carrier in NDDS. Discuss the advantages of hydrophilic polymer used in drug delivery system. (1 + 3 + 8 + 3)

3. Discuss the method of preparation, characterization and application of nanoparticles in drug delivery systems. (5 + 6 + 4)

4. Discuss the advantages and disadvantages of controlled release formulation. Write down different level of correlation in *in vitro* and *in vivo* correlation for CDDS. (3 + 3 + 9)

5. Discuss the method of preparation of microparticle. Write in detail the method of evaluation of microparticle. (8 + 7)

6. Discuss different methods of drug release from a drug delivery system with suitable diagram. Classify the parenteral controlled release system. (8 + 7)

7. Discuss different material used in the formulation of osmotic pump with suitable examples. Write short notes on elementary osmotic pump. (10 + 5)
 8. What are the criteria for the selection of materials for pharmaceutical packaging? Give details of glass as the packaging material. (9 + 6)
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