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UNIVERSITY OF JAFFNA, SRI LANKA
B.PHARM FOURTH YEAR SECOND SEMESTER EXAMINATION–JANUARY 2013
PHARMACEUTICS V - PHACE4202 (OLD SYLLABUS)
Paper II

Date: 10.01.2013 **Time: 02 hours**

ANSWER ALL THE **EIGHT** QUESTIONS

1.

1.1. Define the following.
- 1.1.1 Relative bioavailability. (10 Marks)
- 1.1.2 Pharmaceutical equivalents. (10 Marks)
- 1.1.3 Volume of distribution. (10 Marks)
- 1.1.4 Bioequivalence. (10 Marks)

1.2. Briefly describe thefactors that affect the oral absorption of drugs. (60 Marks)

2.

2.1. List different mechanisms for transport of drugs across biological membranes. (30 Marks)

2.2. What is drug clearance? (10 Marks)

2.3. Explain the chemical factors that affect the hepatic biotransformation of drugs. (60 Marks)

3.

3.1. List 06 advantages of controlled release dosage forms over conventional dosage forms. (30 Marks)

3.2. List 05 activation modulated drug delivery systems by physical means. (20 Marks)

3.3. Briefly explain the mechanism of the activation modulated drug delivery systems mentioned in 3.2. (50 Marks)

4.

4.1. List 05advantages of transdermal drug delivery system. (20 Marks)

4.2. List the biological properties of drugs that are suitable for transdermal drug delivery. (20 Marks)

4.3. Explain the components of the transdermal patches. (60 Marks)

5.

5.1. Define "targeted drug delivery system". (20 Marks)

5.2. Explain the advantages of targeted drug delivery systems. (20 Marks)

5.2. Describe different types of targeted drug delivery systems. (60 Marks)

6. Write an account on

6.1. various methods used in the preparation of microspheres. (60 Marks)

6.2. uses of pharmacokinetic models. (40 Marks)

7.

7.1. Explain with examples about the hydrolytic degradation of drugs. (40 Marks)

7.2. How hydrolytic degradation of drugs can be prevented? (60 Marks)

8. Discuss the influence of packaging components on dosage form stability. (100 Marks)