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UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECOND YEAR FIRST SEMESTER EXAMINATION – February 2017
PHARMACOLOGY & PHARMACOTHERAPY I – PHACL 2143

Paper II

Date: 31.03.2017

Time: 02 hours

ANSWER ALL FOUR QUESTIONS

1.

- 1.1. Define the following.
 - 1.1.1. Systemic bioavailability (10 Marks)
 - 1.1.2. Hepatic first-pass metabolism (10 Marks)
- 1.2. Describe how hepatic first-pass metabolism influences the bioavailability of oral drugs. (30 Marks)
- 1.3. List five (05) drugs that undergo extensive hepatic first-pass metabolism. (20 Marks)
- 1.4. Explain methods used to improve the bioavailability of drugs that undergo extensive hepatic first-pass metabolism. (30 Marks)

2.

- 2.1. Describe the mechanism of action of penicillin. (10 Marks)
- 2.2. Give two (02) examples for
 - 2.2.1. narrow spectrum penicillin. (10 Marks)
 - 2.2.2. broad spectrum penicillin. (10 Marks)
- 2.3. Name the most serious adverse effect of penicillin. (10 Marks)
- 2.4. Explain the clinical manifestations of the condition mentioned in 2.3. (30 Marks)
- 2.5. Name three (03) drugs that are used in the treatment of the condition mentioned in 2.4. and explain the rationale for using them in the above mentioned condition. (30 Marks)

3.

- 3.1. List the first-line antituberculous drugs. (20 Marks)
- 3.2. Describe the adverse effects of the drugs mentioned in 3.1. (50 Marks)
- 3.3. Write the advice that need to be given to a patient prescribed with antituberculous drugs. (30 Marks)

4.

- Write an account on
- 4.1. type A adverse drug reactions. (30 Marks)
 - 4.2. order of kinetics. (40 Marks)
 - 4.3. protein binding of drugs. (30 Marks)