



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF PHARMACY**  
**THIRD YEAR SECOND SEMESTER EXAMINATION–April 2020**  
**PHARMACOLOGY & PHARMACOTHERAPY IV – PHACL 3242**

**Paper II**

**Date: 26.09.2020**

**Time: 02 hours**

**ANSWER ALL FOUR QUESTIONS**

1.
  - 1.1. Give two (02) examples for
    - 1.1.1. Tricyclic antidepressant (TCA). (20 Marks)
    - 1.1.2. Selective serotonin reuptake inhibitors (SSRIs). (30 Marks)
  - 1.2. Describe the mechanism of action of TCA and SSRIs. (20 Marks)
  - 1.3. Explain the adverse effects of TCA. (10 Marks)
  - 1.4. List the indications of antidepressants. (20 Marks)
  - 1.5. Describe the consequence of concurrent administration of a monoamine oxidase inhibitor with a TCA. (20 Marks)
2.
  - 2.1. Classify the benzodiazepines according to their duration of action and give one (01) example for each group. (20 Marks)
  - 2.2. Describe the mechanism of action of benzodiazepines. (20 Marks)
  - 2.3. List the therapeutic uses of benzodiazepines. (30 Marks)
  - 2.4. Describe the pharmacodynamic interactions of benzodiazepines. (10 Marks)
  - 2.5. List the adverse effects of benzodiazepines. (25 Marks)
3. Explain the pharmacological basis for the following.
  - 3.1. Need for larger dose of lidocaine to anesthetize an infected area. (25 Marks)
  - 3.2. Using anticholinergic drugs in anesthesia. (25 Marks)
  - 3.3. Using naloxone in opioid overdose. (25 Marks)
  - 3.4. Combining levodopa and carbidopa. (25 Marks)
4. Write an account on
  - 4.1. Pharmacokinetic and Pharmacodynamic changes in elderly. (30 Marks)
  - 4.2. Phase III clinical trial. (40 Marks)
  - 4.3. Morphine. (30 Marks)