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**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF PHARMACY**  
**SECOND YEAR SECOND SEMESTER EXAMINATION–March 2019**  
**PHARMACOLOGY & PHARMACOTHERAPY II – PHACL 2242**

**Paper II**

**Date: 26.03.2019**

**Time: 02 hours**

**ANSWER ALL FOUR QUESTIONS**

1.
  - 1.1. Give two (02) examples for
    - 1.1.1. direct acting cholinomimetics. (05 Marks)
    - 1.1.2. indirect acting cholinomimetics. (05 Marks)
  - 1.2. Describe the mechanism of action of
    - 1.2.1. direct acting cholinomimetics. (10 Marks)
    - 1.2.2. indirect acting cholinomimetics. (10 Marks)
  - 1.3. List the indications of cholinomimetics. (20 Marks)
  - 1.4. Describe the adverse effects of cholinomimetics. (50 Marks)
  
2.
  - 2.1. List five (05) groups of first-line antihypertensive agents. Give one (01) example for each group. (25 Marks)
  - 2.2. Describe the mechanism of action of each group of antihypertensive agents mentioned in 2.1. (50 Marks)
  - 2.3. Mention two (02) important adverse effects of each group of drugs mentioned above. (25 Marks)
  
3.
  - 3.1. Classify the drugs used in the treatment of asthma. (30 Marks)
  - 3.2. Outline the mechanism of action of each group of drugs mentioned in 3.1. (30 Marks)
  - 3.3. List the different mode of delivery of drugs in the treatment of bronchial asthma and mention the drugs that are delivered by each mode. (20 Marks)
  - 3.4. List the drugs that are used in the treatment of acute severe asthma. Mention the most appropriate route of administration for each of the drug in the treatment of acute severe asthma. (20 Marks)
  
4. Write an account on
  - 4.1. digoxin. (30 Marks)
  - 4.2. low molecular weight heparins. (30 Marks)
  - 4.3. COX-2 selective non-steroidal anti-inflammatory drugs. (40 Marks)