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UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2023  
PHACL 3153 PHARMACOLOGY & PHARMACOTHERAPY III- PAPER II

Date: 02.12.2024

Time: 02 hours

**ANSWER ALL FOUR QUESTIONS**

1.
  - 1.1 Classify insulin formulations based on the duration of action providing one (01) example for each type. (20 Marks)
  - 1.2 Briefly describe the mechanism of action of insulin. (25 Marks)
  - 1.3 List four (04) indications of insulin (20 Marks)
  - 1.4 Mention the most common adverse effect of insulin. (05 Marks)
  - 1.5 Briefly describe the precautions that need to be taken to avoid the adverse effect mentioned in 1.4. (30 Marks)
  
2.
  - 2.1 Classify the antithyroid drugs. (10 Marks)
  - 2.2 Describe the mechanism of actions of the groups mentioned in 2.1. (30 Marks)
  - 2.3 Briefly describe the adverse effects of each group mentioned in 2.1. (30 Marks)
  - 2.4 Briefly describe the management of thyroid storm (thyroid crisis). (30 Marks)
  
3. Explain the pharmacological basis for the following:
  - 3.1 Prophylaxis of NSAIDs-induced peptic ulcer. (25 Marks)
  - 3.2 Triple therapy in the treatment of *Helicobacter pylori* infection. (25 Marks)
  - 3.3 Using metoclopramide and NSAID in the treatment of migraine. (25 Marks)
  - 3.4 Using ondansetron in patients receiving cancer chemotherapy. (25 Marks)
  
4. Write an account on
  - 4.1 bisphosphonates. (30 Marks)
  - 4.2 precautions to be taken with long-term corticosteroid therapy. (30 Marks)
  - 4.3 combined hormonal contraceptives. (40 Marks)