



**UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES**

**DEPARTMENT OF PHARMACY**

**THIRD BPHARM PART II EXAMINATION – DECEMBER 2017**

**PH 3212 PHARMACOLOGY IV AND TOXICOLOGY (SEQ)**

**TIME: TWO HOURS**

**INSTRUCTIONS**

- There are **four (04)** questions.
- Answer **all** questions in the books provided.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

1. Answer **all** parts.

- 1.1. Describe the mode of action of bisphosphonates. (25 marks)
- 1.2. Give **three** examples for bisphosphonates. (10 marks)
- 1.3. Briefly describe advice to a patient who was prescribed with bisphosphonate. (25 marks)
- 1.4. Briefly describe the treatment of hyperprolactinaemia in an anovulatory women. (40 marks)

2. Answer **all** parts.

- 2.1. Name **two** indications of dimercapol. (10 marks)
- 2.2. Mention **five** common chelating agents. (20 marks)
- 2.3. Briefly describe **five** clinical features of iron overload. (35 marks)
- 2.4. Name **two** drugs used for the treatment of iron overload. (10 marks)
- 2.5. **Explain** the therapeutic effects of **one** of the drug you mentioned in 2.4. (25 marks)

3. Answer **all** parts.

- 3.1. Briefly describe the mode of action of cyclosporine. (30 marks)
- 3.2. List **three** clinical indications of cyclosporine indicating its therapeutic effects. (25 marks)
- 3.3. List **five** adverse effects of cyclosporine. (25 marks)
- 3.4. Explain the pharmacological reasons for observing cyclosporine toxicity with cytochrome enzyme (CYP3A4) inhibitors. (20 marks)

4. Answer **all** parts.

- 4.1. In relation to the treatment of malaria,
- 4.1.1. Write the mode of action of chloroquine. (20 marks)
- 4.1.2. What is cinchonism? Indicate **three** signs and symptoms of cinchonism. (20 marks)

4.2.

4.2.1. List **five** indications of anti-snake venom serum (AVS). (10 marks)

4.2.2. List **five** drugs which can be used in the treatment of alcohol dependence indicating the pharmacological basis. (25 marks)

4.3.

4.3.1. Write **four** first line drugs used in the treatment of tuberculosis. (05 marks)

4.3.2. Justify recommending the multiple drug therapy in the treatment of tuberculosis. (20 marks)

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