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

**DEPARTMENT OF PHARMACY**

**THIRD BPHARM PART II EXAMINATION – AUGUST/SEPTEMBER 2020**

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

**TIME: TWO HOURS**

**INSTRUCTIONS**

- There are **four** questions in the part **A, B** and **C** in SEQ paper.
- 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.

**PART A**

01.

- 1.1 Isoniazid and rifampicin are first line anti-tuberculosis medications
- 1.1.1 Describe the mechanism of actions of isoniazid and rifampicin. (20 marks)
- 1.1.2 Write **two** adverse effects of each medication. (20 marks)
- 1.1.3 Explain the possible drug interactions of above **two** medications. (20 marks)
- 1.2 Discuss anti-retroviral therapy used in controlling Acquired Immunodeficiency Syndrome (AIDS) due to Human Immunodeficiency Virus (HIV) indicating the drug regimen and their mechanism of action. (40 marks)

02.

- 2.1 Doxorubicin and vincristine are two anticancer medications.
- 2.1.1 Briefly explain the mechanism of actions of each of the above medications. (35 marks)
- 2.1.2 List **two** adverse effects of each medication. (20 marks)
- 2.2
- 2.2.1 State **two** indications tacrolimus. (10 marks)
- 2.2.2 Briefly explain the pharmacokinetics of tacrolimus. (15 marks)
- 2.2.3 List **four** adverse effects of tacrolimus. (20 marks)

03.

- 3.1 Mebendazole and Thiabendazole are synthetic benzimidazoles.
- 3.1.1 Write **three** indications of mebendazole. (15 marks)
- 3.1.2 Briefly explain the mechanism of action of mebendazole. (15 marks)

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- 3.1.3 State **three** common adverse effects of thiabendazole. (15 marks)
- 3.1.4 Write a contraindication common for both above mebendazole and thiabendazole. (05 marks)

### PART B

- 3.2 Briefly describe the management of organophosphate poisoning. (20 marks)
- 3.3
- 3.3.1 State **three** clinical features of morphine poisoning. (15 marks)
- 3.3.2 Briefly describe the management of morphine poisoning. (15 marks)

### 04.

- 4.1
- 4.1.1 Write the toxic doses of paracetamol and aspirin. (05 marks)
- 4.1.2 State **two** clinical features of paracetamol poisoning. (05 marks)
- 4.2 Write the names of the **five** snakes whose antiserum is available in “polyvalent anti-snake venom serum” (Indian antivenom). (15 marks)

### PART C

- 4.3 Describe **four** methods which are used for gastric decontamination of patients with poisoning. (40 marks)
- 4.4 List **four** clinical symptoms of methanol poisoning. (10 marks)
- 4.5 Briefly explain the pharmacological basis of giving IV ethanol in severe methanol poisoning. (15 marks)
- 4.6 List **one** parenteral chelating agent and **one** oral chelating agent which are used in the inorganic lead poisoning. (10 marks)

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