



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

THIRD BPHARM PART II EXAMINATION – JUNE 2023

PH 3212 PHARMACOLOGY IV AND TOXICOLOGY- SEQ PAPER

TIME: TWO HOURS

INSTRUCTIONS

- There are **four** questions in part **A, B** and **C** in this SEQ paper.
- Answer each part in separate booklet provided.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

1.

1.1. Chronic lead poisoning is one of the oldest occupational and environmental public health problem globally.

1.1.1. Write two major clinical effects of chronic lead poisoning. **(10 marks)**

1.1.2. State one parenteral chelating agent and one oral chelating agent use in the management of inorganic lead poisoning. **(10 marks)**

1.2. Describe four gastrointestinal decontamination methods that can be used for management of poisoning in general. **(40 marks)**

1.3.

1.3.1. List three factors affecting the susceptibility to chronic alcohol toxicity. **(15 marks)**

1.3.2. State three FDA approved drugs used as an adjunctive treatment of alcohol dependence. **(15 marks)**

1.4. Write specific antidotes for following drugs. **(10 marks)**

1.4.1. Benzodiazepines

1.4.2. Morphine

PART B

2.

2.1. The incidence of paracetamol poisoning has risen in the recent past in Sri Lanka.

2.1.1. Write the toxic dose of paracetamol in dose/kg. (05 marks)

2.1.2. State the name of intermediate toxic metabolite that is produced in paracetamol overdose. (10 marks)

2.1.3. Mention two commonly used antidotes for treatment of paracetamol poisoning. (10 marks)

2.2.

2.2.1. Mention the antidote and the cholinesterase reactivator that can be given in treating a patient with malathion poisoning. (10 marks)

2.2.2. Mention three features of evidence of envenoming due to snake bites giving one example for each. (15 marks)

2.3.

2.3.1. Briefly describe the mechanism of action of ciclosporin. (20 marks)

2.3.2. Mention two side effects of azathioprine. (05 marks)

2.3.3. Biotechnologically produced polyclonal/monoclonal antibodies play an immense role as immunosuppressant. List four drugs belongs to this group. (10 marks)

2.3.4. State three drugs used as immune system stimulants. (15 marks)

3.

3.1. In relation to chloroquine, briefly describe the following.

3.1.1. Mechanism of action (20 marks)

3.1.2. Clinical uses (10 marks)

3.1.3. Pharmacokinetics (10 marks)

3.1.4. Two side effects (10 marks)

3.2. Benzimidazoles are widely used broad - spectrum anthelmintic.

3.2.1. Briefly describe the mechanism of action of Benzimidazoles. (20 marks)

3.2.2. Mention two indications and two side effects for each of the following drugs.

3.2.2.1 Thiabendazole

3.2.2.2 Mebendazole

3.2.2.3 Diethylcarbamazine citrate (30 marks)

PART C

4. Alkylating agents of cytotoxic medications are in three different subtypes.

4.1.

4.1.1. Name three subtypes of alkylating cytotoxic medicines. Give two examples of medicines for each of the subtypes. *(18 marks)*

4.1.2. Describe the mechanism of action of alkylating agents. *(24 marks)*

4.1.3. List five common adverse effects of alkylating agents. *(10 marks)*

4.1.4. Name three other categories of cytotoxic medicines and give two examples of medicines for each of the categories you mentioned. *(18 marks)*

4.2. Griseofulvin is used to treat fungal infections.

4.2.1. Describe the mechanism of action of griseofulvin. *(15 marks)*

4.2.2. Briefly explain below pharmacological properties of griseofulvin. *(15 marks)*

4.2.2.1. One main indication related to fungal infections

4.2.2.2. Two contraindications

4.2.2.3. Two drug interactions

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