



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES
DEPARTMENT OF PHARMACY
SECOND BPHARM PART II EXAMINATION – NOVEMBER/DECEMBER 2021
PH 2232 PHARMACOLOGY II- SEQ PAPER

TIME: TWO HOURS

INSTRUCTIONS

- There are **four** questions in part **A and B** 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. Lithium carbonate is used as a mood stabilizer.

1.1 List three other mood stabilizers. *(15 marks)*

1.2 Name two indications of lithium carbonate. *(10 marks)*

1.3 List five minor adverse effects that a patient could encounter after starting lithium carbonate. *(15 marks)*

1.4 Describe the pharmacokinetic properties of lithium carbonate. *(30 marks)*

1.5 A doctor has decided to start lithium carbonate to an in-patient of the psychiatry ward. If this patient is under your pharmaceutical care, write the special advices that you would provide to the patient with regard to the monitoring of lithium levels in this patient.

(30 marks)

2.

2.1 Antipsychotic medications are in two main categories as typical and atypical antipsychotics.

2.1.1 Write four examples of medications for each of the above categories. *(20 marks)*

2.1.2 Outline the mechanism of action of typical antipsychotics. *(15 marks)*

2.1.3 List four adverse effects of typical antipsychotics. *(10 marks)*

2.1.4 List two adverse effects that are specific in atypical antipsychotics. *(05 marks)*

2.2

2.2.1 Name four benzodiazepines. *(10 marks)*

2.2.2 List two indications for benzodiazepines. (10 marks)

2.2.3 Briefly describe the adverse effects of benzodiazepines. (30 marks)

3. Methotrexate is a conventional Disease Modifying Antirheumatic drug (DMARD).

3.1 List two other conventional DMARDs. (10 marks)

3.2 Name two biological DMARDs. (10 marks)

3.3 Describe followings regarding methotrexate.

3.3.1 Mechanism of action (10 marks)

3.3.2 Adverse effects (10 marks)

3.3.3 Contraindications (10 marks)

PART B

3.4 State the two types of neurotransmitters according to the action. (10 marks)

3.5 List four neuropeptide neurotransmitters. (10 marks)

3.6 Describe the neurotransmission of acetylcholine at cholinergic neurons using the sequential steps. (30 marks)

4.

4.1 Compare spinal and epidural anesthesia with regards to onset of action, injection site and dose. (20 marks)

4.2 State the four major stages of anesthesia. (10 marks)

4.3 Briefly describe following regarding inhaled anesthetics.

4.3.1 Pharmacokinetics (10 marks)

4.3.2 Mechanism of action (10 marks)

4.3.3 Adverse effects (10 marks)

4.4 List five advantages and disadvantages of local anesthesia over general anesthesia. (20 marks)

4.5 Describe followings regarding lidocaine.

4.5.1 Indication (10 marks)

4.5.2 Contraindication (10 marks)

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