



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART II EXAMINATION – SEPTEMBER 2020

PH 2232 PHARMACOLOGY II (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- There are **four** questions in the 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.

01. Below are some widely used antidepressants.

Bupropion, Clomipramine, Fluoxetine, Venlafaxine, Citalopram, Selegiline, Imipramine, Sertraline, Amitriptyline, Mirtazapine

- 1.1 Categorise above drugs according to their mechanism of action *(20 marks)*
- 1.2 Describe the mechanism of action of fluoxetine *(30 marks)*
- 1.3 'Fluoxetine can cause a discontinuation syndrome'. Briefly explain the statement *(20 marks)*
- 1.4 Apart from depression, discuss other indications that antidepressants are used *(30 marks)*

02.

- 2.1 List **three** indications of sodium valproate *(15 marks)*
- 2.2 Describe followings regarding sodium valproate *(30 marks)*
 - 2.1.1 adverse effects
 - 2.1.2 cautions
 - 2.1.3 contraindications
- 2.3 List **two** naturally occurring opioids and **two** synthetic opioids *(20 marks)*
- 2.4 Explain the mechanism of action of opioids *(35 marks)*

03.

3.1

3.1.1 Name **two** 'selective COX-2 inhibitors' (10 marks)

3.1.2 Describe pharmacological properties of 'selective COX-2 inhibitors' (40 marks)

3.2

3.2.1 Briefly describe the pharmacological basis of using sumatriptan in acute attack of migraine (30 marks)

3.2.2 List **five** common side effects of sumatriptan (20 marks)

04.

4.1 Compare and contrast propofol with thiopental and ketamine (40 marks)

4.2.

4.2.1 Briefly describe the mechanism of action of levodopa in treatment of Parkinson's disease (25 marks)

4.2.2 List **four** adverse effects of levodopa (10 marks)

4.2.3 'Selegiline can be used as an adjunct therapy to levodopa in the treatment of Parkinson's disease'. Explain the statement (25 marks)

@@@@@@@@@@