

BACHELOR OF PHARMACY HONOURS
FMU4303 – PHARMACOLOGY I – LEVEL 4
FINAL EXAMINATION
DURATION: THREE HOURS

DATE: 26th FEBRUARY 2019

TIME: 1.30 P.M –4.30 P.M

Structured Essay Questions (SEQs) – (50 marks)

Answer all questions.

1.

Angina is often described as squeezing, pressure, heaviness, tightness or pain in the chest occurs at rest or while on exercising.

- 1.1 List **three (03)** types of Calcium Channel Blockers (CCB). (03 marks)
- 1.2 Explain the mechanism of action of CCB in the treatment of Angina. (06 marks)
- 1.3 Write a short note on the information that should give to the patient when dispensing Glyceryl Trinitrate (GTN). (3.5 marks)

2.

Organophosphates are compounds used as commercial insecticides, chemical warfare and are applied as aerosols or dusts. They can be rapidly absorbed through skin and mucous membranes or by inhalation.

- 2.1 State **one (01)** therapeutic use of organophosphate compounds. (1.5 marks)
- 2.2 Explain the mechanism of organophosphate poisoning. (08 marks)
- 2.3 Briefly explain the mechanism of action of Pralidoxime as an antidote for organophosphate poisoning. (03 marks)

3.

Dyslipidemia is an abnormal level of cholesterol and other lipids in the blood. Lipids are important component of the living cells. However, high levels can increase the risk of getting coronary artery diseases or myocardial infarction and should be well treated.

- 3.1 Explain the mechanism of action of statins in the treatment of hyperlipidemia. (07 marks)
- 3.2 State **two (02)** significant side effects which are common with statins. (02 marks)
- 3.3 Co-administration of a statin along with a bile acid sequestrant will enhance its effectiveness. Briefly explain the statement. (3.5 marks)

4.

Aspirin is used as the first line antiplatelet drug to reduce the risk of serious vascular events. It also used to treat fever, pain, and inflammation in the body.

- 4.1 Explain the mechanism of action of Aspirin as an antiplatelet drug. (08 marks)
- 4.2 Aspirin is contraindicated in the patients with peptic ulcers. Justify the statement. (2.5 marks)
- 4.3 State **two (02)** adverse effects of Aspirin (02 marks)

