THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2018/2019 – SEMSETER I

BACHELOR OF PHARMACY HONOURS
FMU6302 - THERAPEUTICS – LEVEL 6
FINAL EXAMINATION
DURATION: THREE HOURS

DATE: 05TH OF MARCH 2019 TIME: 01.30 PM – 04.30 PM

PART B – SEQs (50 Marks)
Answer All Questions.

1.

1.1. Name four (04) drug classes used in the treatment of hypertension. **(04 marks)**

1.2. Describe the **mechanism** of action of ACE inhibitors as an antihypertensive treatment. **(08 marks)**

2. Arrhythmia is loss of cardiac rhythm or in simple terms irregularity of heartbeats and any change from normal sequence.

2.1.1. Below is a figure which illustrates the action potential of cardiac muscle (Fig. 1). Briefly explain the phases **0, 1, 2 and 3** with regard to **ion movement** and **intracellular potential change.** **(08 marks)**

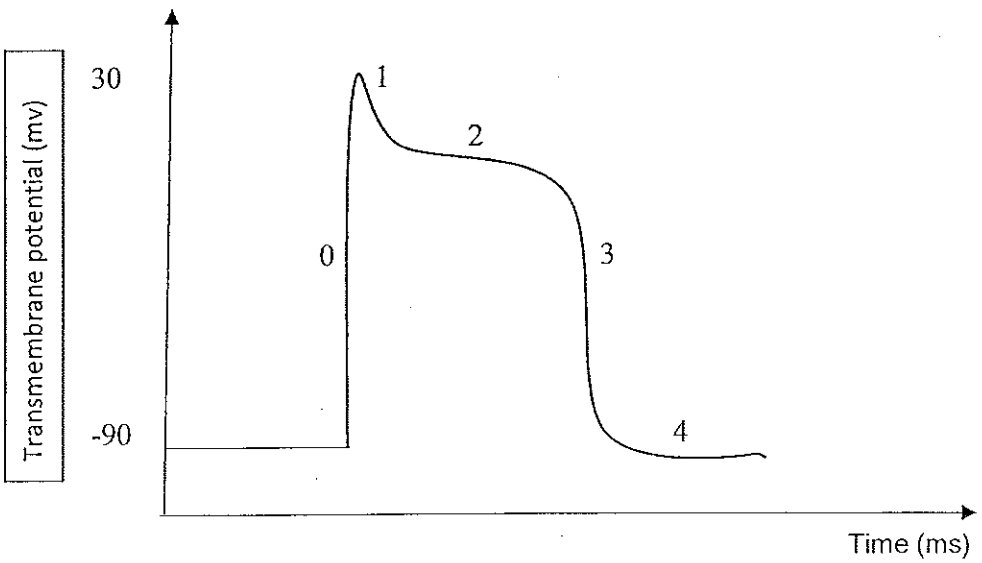


Fig. 1: An action potential from ventricular myocardium

2.2. Briefly explain how following drug classes exert their antiarrhythmic effect for **Re-entry.**

2.2.1. Class I **(03 marks)**

2.2.2. Class III **(03 marks)**

3. Answer the following questions based on peptic ulcer disease.
   3.1. Write two (02) aggressive factors and two (02) defensive factors of gastric mucosa.
   (04 marks)
   3.2. Describe how avoidance/stopping of NSAIDs will help in healing peptic ulcers.
   (08 marks)

4.
   4.1. Write three (03) main treatment options available for hyperthyroidism.
   (03 marks)
   4.2. Describe how the above treatment options will correct the disease condition.
   (09 marks)