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UNIVERSITY OF RUHUNA - FACULTY OF MEDICINE
ALLIED HEALTH SCIENCES DEGREE PROGRAMME
FOURTH BPHARM PART I EXAMINATION - DECEMBER 2016
PH 4112 ADVANCED MEDICINAL CHEMISTRY I (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

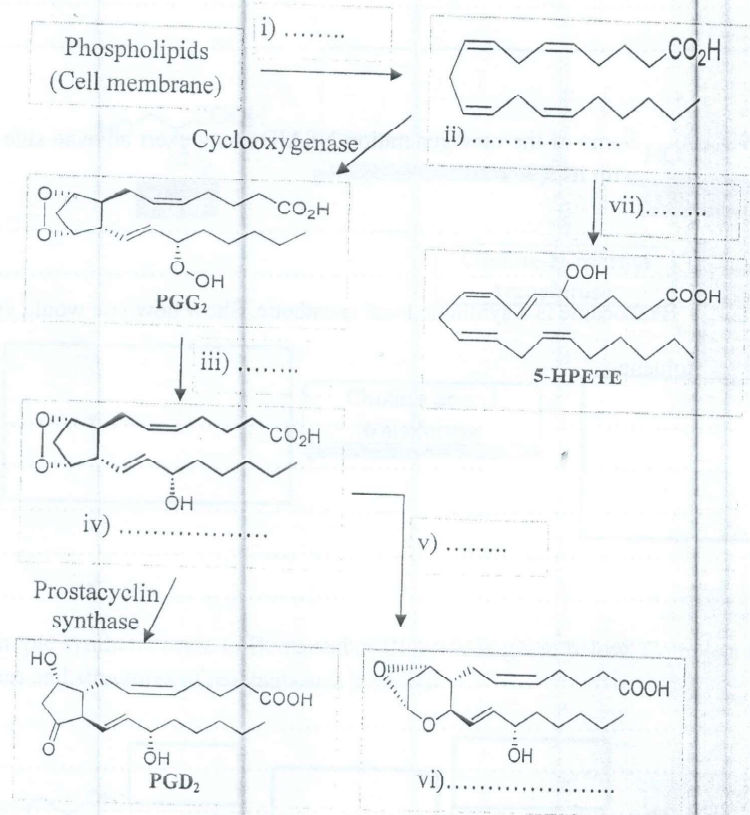
- Answer **all** questions.
- Do not use correction fluid.
- Answer questions in the given answer book.
- Marks will be deducted for illegible hand writing.

01. Answer **all** parts.

1.1

1.1.1 Complete the following biosynthesis pathway of eicosanoids.

(35 marks)



1.1.2 How do the conventional NSAIDs act as anti-inflammatory drugs?

(10 marks)

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4.2

4.2.1 Giving an example for each, define the following terms.

(10 marks)

a) *In vitro* bioassays.

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b) *In vivo* bioassays.

(10 marks)

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4.2.2 Draw the chemical structures of the following vitamins.

(30 marks)

a) Vitamin B₁

b) Vitamin B₆

c) Vitamin B₉