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**UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE**  
**ALLIED HEALTH SCIENCES DEGREE PROGRAMME**  
**FIRST BPHARM PART II EXAMINATION – MAY 2015**  
**PH 1232 BIOCHEMISTRY II (SEQ)**

**TIME: 2 HOURS**

**INSTRUCTIONS**

- Answer all questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

1. Explain the following statements.

1.1 Regulation of metabolic pathways by feedback inhibition.

*(50 marks)*

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3.3 Biochemical basis of skin hypopigmentation in phenylketonuria. (30 marks)

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4. Describe the following.

4.1 Basic structure of purine and pyrimidine nucleotides. (20 marks)

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4.2 De novo synthesis of purine and pyrimidine bases.

(50 marks)

Lined area for writing the answer to question 4.2.

4.3 Biochemical basis of allopurinol use in gout.

(30 marks)

Lined area for writing the answer to question 4.3.