



UNIVERSITY OF JAFFNA, SRI LANKA  
UNIT OF ALLIED HEALTH SCIENCES  
FIRST YEAR FIRST SEMESTER BASIC SCIENCES EXAMINATION-AUGUST, 2016

AHSBB 1146 – BASIC BIOCHEMISTRY  
PAPER II

Date: 01.09.2016

Time: 2 Hours

**ANSWER ALL SIX QUESTIONS**

1. 1.1 1.1.1 List three pathways which are increased during starvation. (15 Marks)  
1.1.2 Diagrammatically show one of the pathways mentioned in 1.1.1 and explain how it is initiated. (60 Marks)
- 1.2 Give the principle of a specific method used to estimate glucose in urine. (25 Marks)
  
2. 2.1 Explain how coconut oil is digested and absorbed. (30 Marks)  
2.2 2.2.1 Give the metabolism of Low Density lipoprotein (LDL). (40 Marks)  
2.2.2 Diagrammatically show and explain the control of cholesterol biosynthesis. (30 Marks)
  
3. 3.1 Explain the biochemical basis for the elevated conjugated bilirubin level in blood. (30 Marks)  
3.2 How does allopurinol reduce serum uric acid level? (25 Marks)  
3.3 Write short notes on point mutation. (20 Marks)  
3.4 Explain the functions of immunoglobulins related to their structure. (25 Marks)