UNIVERSITY OF JAFFNA, SRI LANKA EXAMINATION FOR ALLIED HEALTH SCIENCES DEGREE BASIC SCIENCES- FIRST YEAR FIRST SEMESTER- JULY, 2013 AHSBB1104- BASIC BIOCHEMISRTY

Date: 03.09.2013

Answer all questions.

Time: 2 hours

PAPER II

1.

1.1 The energy obtained by the oxidation of glucose under aerobic condition is higher than that obtained under anaerobic condition. Explain. (50 marks)

1.2 Explain how would you prepare and perform the oral glucose tolerance test to a patient? (50 marks)

2.

2.1 Diagrammatically show the metabolism of LDL.

(50 marks)

2.2 What are the biochemical tests you would perform to conform hypothyroidism.

(15 marks)

2.3 Diagrammatically show the thyroxin hormone biosynthesis.

(35 marks)

3.

- 3.1 Explain the factors which affect the oxygen dissociation curve of haemoglobin with figures. (50 marks)
- 3.2 A 40 year old male presented with history of pale colour stool and dark colour urine for three days. His laboratory finding show that, total serum bilirubin level was 5.0 mg/dL. (Normal range 0.3-1.0 mg/dL).
 - 3.2.1 What could be the clinical condition?

(10 marks)

3.2.2 Explain the tests that you would perform to confirm the above condition.

(40 marks)

4.		
	4.1 List the components needed for the protein synthesis.	(15 marks)
	4.2 Diagrammatically explain the initiation process of protein synthesis.	(45 marks)
	4.3 Give the different classes, distributions and functions of Immunoglobulin.	
		(40 marks)
5.		
	5.1 A 50 year old male presented with joint pain from morning, and previous day he had	

biochemical explanation to the above condition. (50 marks) 5.2 Briefly explain how ammonia produced during catabolism of aminoacid is detoxified in human body. (50 marks)

participated in a party and he consumed high amount of alcohol with meat. Give

day he had

6.

- 6.1 Explain the importance of dietary fibers in different clinical conditions. (40 marks)
- 6.2 Write short notes on
 - 6.2.1 Supplementary action of protein. (30 marks)
 - 6.2.2 Nutritional requirement for pregnant mother. (30 marks)