Medical Conversity of Jaffna, SRI LANKA UNIT OF ALLIED HEALTH SCIENCES

FIRST YEAR FIRST SEMESTER BASIC SCIENCES EXAMINATION-DECEMBER 2019

AHSBB 1146 - BASIC BIOCHEMISTRY - PAPER II

Date: 03.12.2019

ANSWER ALL SIX QUESTIONS

Answer each Question on Separate Answer Book.

1. The total serum bilirubin of a newborn baby was, 13 mg/dl.

1.1 Name the probable condition.

(10 Marks)

Time: 2 Hours

1.2 List the probable causes for the above condition.

(25 Marks)

1.3 Explain the causes leading to the above observation.

(55 Marks)

1.4 What treatment is usually suggested for the newborn babies with the above condition?

(10 Marks)

2. 2.1 List the probable causes of Type I diabetes mellitus.

(30 Marks)

2.2 Write short notes on glycosylated haemoglobin.

(20 Marks)

2.3 Give the principle of the method which is used to measure plasma glucose

specifically.

(15 Marks)

2.4 Untreated diabetes mellitus patients lose weight. Explain.

(35 Marks)

3.	3.1	Diagrammatically show the metabolism of VLDL.	(30 Marks).
	3.2	Give reasons for the development of ketoacidosis.	(30 Marks)
4.	3.3 4.1 4.2	Explain the role of liver and kidney in the detoxification of ammonia. Explain the different tests which could be carried out to test 4.1.1 iron metabolic disorders. 4.1.2 thyroid function. Explain the process and advantages of parboiling the rice.	(40 Marks) (35 Marks) (40 Marks) (25 Marks)
			(50Marks)
5.	5.1	Explain the role of vitamin A in vision.	
	5.2	Calculate the daily calorie requirement of a 50 year old 170cm of he	ight and 73kg of
		weight sedentary adult female.	(35Marks)
	5.3	Calculate the amounts (in grams) of carbohydrate, lipid and protein	the female has to
	3.5	consume to obtain the calorie mentioned in Section 5.2.	(15Marks)

What is acquired immunity?

consumes high amount of alcohol?

6.

6.1



Show how Glucose -6- phosphatase deficiency causes hyperuricemia when the person

6.3 Explain the steps involved in the posttranslational modification of collagen?

(30 Marks)

(40 Marks)

(30 Marks)