

UNIVERSITY OF JAFFNA, SRI LANKA
ALLIED HEALTH SCIENCES - Basic Sciences
First Year First Semester Examination– July 2013
AHSBP1105 – Basic Physiology
Paper II

Date: 05.09.2013.

Time: 2 hours

Answer all the six questions.

1.
 - 1.1. Briefly describe the Starling forces that are responsible for capillary exchange (40 Marks)
 - 1.2. Briefly describe the mechanisms that maintain sodium balance. (30 Marks)
 - 1.3. Briefly describe the physiological basis of glycosuria in diabetes mellitus. (30 Marks)

2. Briefly explain the importance of following investigations.
 - 2.1. Hb concentration. (25 Marks)
 - 2.2. Bleeding time. (25 Marks)
 - 2.3. Differential count of leukocytes. (25 Marks)
 - 2.4. Blood grouping in pregnant mothers (25 Marks)

3.
 - 3.1. Describe deglutition [swallowing] (50 Marks)
 - 3.2. Briefly describe the thermoregulation in hot environment. (50 Marks)

4. Briefly describe the functions of following hormones.
 - 4.1. Estrogen in females. (40 Marks)
 - 4.2. Insulin in protein metabolism (30 Marks)
 - 4.3. Thyroxin on brain development (30 Marks)

5.
 - 5.1. Describe the genesis [production] of heart sounds (30 Marks)
 - 5.2. Briefly explain the change in circulatory parameters during pregnancy (30 Marks)
 - 5.3. Briefly describe the chemical control of respiration (40 Marks)

6.
 - 6.1. Trace the pathway for transmission of pain sensation to sensory cortex (50 Marks)
 - 6.2. Write notes on retina (50 Marks)