

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FIRST YEAR SECOND SEMESTER BASIC SCIENCES EXAMINATION - 2019

AHSBPH 1253 BASIC PHYSIOLOGY II - PAPER II

Date: 18.01.2022

Time: 2 hours

ANSWER ALL THE SIX QUESTIONS.

1. Describe:
 - 1.1. Mechanics of quiet breathing (50 Marks)
 - 1.2. Chemical control of respiration (50 Marks)

2.
 - 2.1. Define cardiac output. (10 Marks)
 - 2.2. Briefly describe the factors affecting cardiac output. (40 Marks)
 - 2.3. Briefly explain the physiological basis of increase in heart rate after severe bleeding. (50 Marks)

3. Briefly explain the physiological basis of the following:
 - 3.1. Sponging with luke-warm water in hyperpyrexia. (30 Marks)
 - 3.2. Increase in pulse pressure during pregnancy. (40 Marks)
 - 3.3. Tall R wave in ECG in patients with hypertension (30 Marks)

4. Briefly describe:
 - 4.1. Mechanisms preventing gastric ulcer (25 Marks)
 - 4.2. Mechanism of acid secretion in gastric glands (25 Marks)
 - 4.3. Intestinal motility (50 Marks)

5. Describe:
 - 5.1. Glomerular filtration (50 Marks)
 - 5.2. Micturition (50 Marks)

- 6.1 Explain the physiological basis of the following:
 - 6.1 Amenorrhea (absence of menstruation) in lactating mothers (35 Marks)
 - 6.2 Monitoring basal body temperature to detect ovulation (30 Marks)
 - 6.3 Muscular development in males during puberty. (35 Marks)