

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FIRST YEAR SECOND SEMESTER BASIC SCIENCES EXAMINATION
BASIC PHYSIOLOGY II (AHSBPH 1253)
PAPER II

Date: 29.08.2022

Time: 2 hours

Answer all the six questions.

1. Describe:
 - 1.1. The changes in intra pleural pressure during breathing (40 Marks)
 - 1.2.
 - 1.2.1. Define hypoxia (10 Marks)
 - 1.2.2. List the types of hypoxia. (20 Marks)
 - 1.2.3. Briefly explain the basis of hypoxia in carbon monoxide poisoning. (30 Marks)
2.
 - 2.1. Define cardiac output. (10 Marks)
 - 2.2. Explain the changes in cardiac output during a moderate exercise. (40 Marks)
 - 2.3. Describe the nervous regulation of blood pressure (50 Marks)
3. Briefly explain the physiological basis of the following:
 - 3.1. Sweating increases after taking paracetamol for fever (30 Marks)
 - 3.2. Increase in pulse pressure during pregnancy. (40 Marks)
 - 3.3. People who do regular physical exercise have reduced risk of myocardial infarction (30 Marks)
4. Explain the functions of following hormones.
 - 4.1. Gastrin (35 Marks)
 - 4.2. Cholecystokinin (CCK) (35 Marks)
 - 4.3. Secretin (30 Marks)
5. Explain:
 - 5.1. Glomerular filtration (50 Marks)
 - 5.2. Micturition (50 Marks)
6. Briefly explain the physiological basis of the following:
 - 6.1 Muscular development in males during puberty (35 Marks)
 - 6.2 Monitoring of basal body temperature to detect ovulation (30 Marks)
 - 6.3 Progesterone pills are used for contraception (35 Marks)