



UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES  
FIRST YEAR SECOND SEMESTER BASIC SCIENCES EXAMINATION - 2021  
AHSBPH 1253 BASIC PHYSIOLOGY II - PAPER II

Date: 16.06.2023

Time: 2 hours

Answer all the six questions.

1.
  - 1.1. Describe the exchange of gas in the lungs (60 Marks)
  - 1.2. Explain the physiological basis of increased respiration in a patient with pulmonary edema (40 Marks)
  
2.
  - 2.1. Explain the spread of impulse in a normal heart (40 Marks)
  - 2.2. Define cardiac out put (10 Marks)
  - 2.3. Describe the factors affecting cardiac output (50 Marks)
  
3. Briefly explain the physiological basis of the following:
  - 3.1. Heart rate increase in fever (30 Marks)
  - 3.2. Pulse pressure increases in moderate physical exercise (40 Marks)
  - 3.3. Elderly people faint when suddenly getup from bed (30 Marks)
  
4. Explain the functions of the following
  - 4.1. Saliva in maintaining the oral hygiene (35 Marks)
  - 4.2. Mucus in the stomach (30 Marks)
  - 4.3. Bile salt in fat digestion and absorption (35 Marks)
  
5. Briefly explain the physiological basis of the following:
  - 5.1. Glycosuria in patients with Diabetes Mellitus (35 Marks)
  - 5.2. Decreased urine specific gravity in Diabetes Insipidus (35 Marks)
  - 5.3. Hemoglobinuria in Malaria (30 Marks)
  
6. Briefly explain the physiological basis of the following:
  - 6.1. Undescended testes should be corrected as early as possible (35 Marks)
  - 6.2. Urine test is carried out to confirm pregnancy (30 Marks)
  - 6.3. Abdominal pain in mother while breast feeding within one week after the delivery (35 Marks)