



UNIVERSITY OF JAFFNA, SRI LANKA  
UNIT OF ALLIED HEALTH SCIENCES

First Year Second Semester Basic Sciences Examination– February 2016  
AHSBPH 1253 – Basic Physiology II

Paper II

Date: 15.02.2016.

Time: 2 hours

**Answer all the six questions.**

1.
  - 1.1. Write the normal value of “Tidal Volume” of young adult (05 Marks)
  - 1.2. Briefly describe a laboratory method you can use to measure Tidal Volume of a subject (45 Marks)
  - 1.3. Define “ Pulmonary Ventilation” (15 Marks)
  - 1.4. Write the instructions you will give to a patient when you record the Vital Capacity (20 Marks)
  - 1.5. List three Lung Function Tests (15 Marks)
2.
  - 2.1. Define “Stroke Volume” (15 Marks)
  - 2.2. List two factors which can increase Stroke Volume (20 Marks)
  - 2.3. Define “Systolic Blood Pressure” (15 Marks)
  - 2.4. List the instruments you need to measure “Diastolic Blood Pressure” (10 Marks)
  - 2.5. Briefly explain the physiological basis of the change in “Diastolic Blood Pressure” during severe exercise (40 Marks)
3. Write short notes on:
  - 3.1. HCl in stomach (35 Marks)
  - 3.2. Blood pH changes in a patient who suffers due to diarrhoea (35 Marks)
  - 3.3. Oedema in Liver diseases (30 Marks)
4.
  - 4.1. Define “Contraceptives” (15 Marks)
  - 4.2. Briefly describe the physiological basis of “Natural Contraceptive Method” (30 Marks)
  - 4.3. List the hormones controlling menstrual cycle (20 Marks)
  - 4.4. Write short notes on “Spermatogenesis” (35 Marks)
5. Briefly write the physiological basis of the following observations:
  - 5.1. Urine flow increases in a person after the intake of water (30 Marks)
  - 5.2. Polyuria in “Diabetes Mellitus” patient (40 Marks)
  - 5.3. Anemia in Renal diseases (30 Marks)
6. Write short notes on
  - 6.1. Metabolic rate (25 Marks)
  - 6.2. Body Temperature (50 Marks)
  - 6.3. Fever (25 Marks)