

UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES  
FIRST YEAR FIRST SEMESTER EXAMINATION IN B.PHARM. (HONS.)-2019  
PHAPP 1163 PHYSIOLOGY FOR PHARMACY I- PAPER II

Date: 16.04.2021.

Time: 2 hours

**Answer all the six questions.**

1. Describe:
  - 1.1. Formation and reabsorption of fluid in tissues (40 Marks)
  - 1.2. Reduced tissue nutrition in patients with diarrhea (30 Marks)
  - 1.3. Oedema in patients with liver failure (30 Marks)
  
2. Explain the physiological basis of the following:
  - 2.1. ESR is increased in anaemia (30 Marks)
  - 2.2. Reticulocyte count is increased in haemolytic anaemia (40 Marks)
  - 2.3. MCV is increased in Vitamin B<sub>12</sub> deficiency (30 Marks)
  
3. Describe the factors that determine:
  - 3.1. Force of contraction in skeletal muscle (50 Marks)
  - 3.2. Body weight (50 Marks)
  
4. Explain the physiological basis of the following:
  - 4.1. In carbon monoxide poisoning, hypoxia occurs but there is no cyanosis (40 Marks)
  - 4.2. Respiratory rate increases in physical exercise (30 Marks)
  - 4.3. Asthmatics are treated with salbutamol ( $\beta_2$  stimulator) (30 Marks)
  
5. Describe:
  - 5.1. Spread of impulse in the heart (50 Marks)
  - 5.2. Pressure changes in aorta in normal cardiac cycle (50 Marks)
  
6. Describe the physiological basis of the following:
  - 6.1. Heart rate increases in haemorrhage (40 Marks)
  - 6.2. People may faint if they stand for a long time (30 Marks)
  - 6.3. When heart rate goes above 200/min, cardiac output reduces (30 Marks)