

UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES  
FIRST YEAR FIRST SEMESTER EXAMINATION IN B.SC (HONS.) IN NURSING- 2019  
NURPY 1143 PHYSIOLOGY FOR NURSES-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. In anaemic patients, increase in reticulocyte count indicates response to treatment (40 Marks)
  - 2.3. Microcytic anaemia occurs in patients with chronic (long term) blood loss (30 Marks)
  
3. Describe the factors that determine:
  - 3.1. Force of contraction in skeletal muscle (50 Marks)
  - 3.2. Body temperature (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. First aid for tension pneumothorax is inserting an injection needle into affected chest cavity (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. Old patients may faint if they raise from bed rapidly (30 Marks)
  - 6.3. When heart rate goes above 200/min, cardiac output reduces (30 Marks)