

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**FACULTY OF ALLIED HEALTH SCIENCES**  
**FIRST YEAR FIRST SEMESTER EXAMINATION IN BScHons (Nursing) - 2020**  
**NURPY 1143 PHYSIOLOGY FOR NURSES I- PAPER II**

**Date:11.02.2022**

**Time: 2 hours**

**Answer all the six questions.**

1.
  - 1.1 A child was admitted with diarrhoea. He had increased thirst and was passing dark urine
    - 1.1.1 Briefly describe the physiological basis of increased thirst. **(50 Marks)**
    - 1.1.2 List 4 signs of dehydration you will look for in this child. **(20 Marks)**
  - 1.2. Briefly explain the physiological basis of edema in patients with liver disease. **(30 Marks)**
  
2.
  - 2.1. Briefly describe the physiological basis of the following: **(30 Marks)**  
MCV is increased in vitamin B<sub>12</sub> deficiency.
  - 2.2. Clotting time is prolonged in patients with liver disease. **(35 Marks)**
  - 2.3. Anti-D injection is given to Rh negative mothers after delivering a Rh positive baby. **(35 Marks)**
  
3.
  - 3.1. Describe the transmission of impulse across a neuro muscular junction **(50 Marks)**
  - 3.2. Write notes on energy balance **(50 Marks)**
  
4.
  - 4.1. List the factors affecting gas exchange in the lungs **(30 Marks)**
  - 4.2. Briefly explain physiological mechanisms leading to difficulty in breathing in asthma **(50 Marks)**
  - 4.3. List 2 parameters that can be done to assess the severity of difficulty in asthma patients **(20 Marks)**
  
5.
  - 5.1. Describe the nervous mechanisms that regulate blood pressure. **(50 Marks)**
  - 5.2. Write the precautions that you would take while measuring blood pressure. **(20 Marks)**
  - 5.3. Briefly explain the factors affecting stroke volume. **(30 Marks)**
  
6.
  - 6.1. Explain the physiological basis of the following: **(30 Marks)**  
Cardiac output decreases when heart rate goes above 200/minutes
  - 6.2. Patients with left ventricular failure needs to be placed in bed rest at 45 degree angle **(40 Marks)**
  - 6.3. Glyceryl Trinitrate relieves angina **(30 Marks)**