



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FIRST YEAR FIRST SEMESTER EXAMINATION IN B.SC (HONS.) IN MLS- 2019
MLSPM 1143 PHYSIOLOGY FOR MLS 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 B₁₂ 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. First aid for tension pneumothorax is converting it in to open pneumothorax (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)