



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FIRST YEAR SECOND SEMESTER EXAMINATION IN BScHons (MLS)- 2023
MLSPM 1243 PHYSIOLOGY FOR MLS II
PAPER II

Date: 16.06.2025

Time: 2 hours

Answer all the six questions.

1. A 10-year-old boy was brought to the hospital by his mother who said that the boy is not playing with friends but prefers to sleep most of the time. He has been complaining of cold when the environmental temperature was comfortable for others. His educational performance was very poor. On examination he had nonpitting oedema.
He was diagnosed to have hypothyroidism due to iodine deficiency.
 - 1.1. Explain the basis of nonpitting oedema in this patient (30 Marks)
 - 1.2. Explain the basis of feeling cold (35 Marks)
 - 1.3. State what would be the TSH level and give reasons for your answer (35 Marks)

2. Describe the basis of the following:
 - 2.1. Patients are at risk of developing headache after withdrawal of CSF by lumbar puncture (25 Marks)
 - 2.2. Patients suffering severe trauma sustaining multiple fractures (without hemorrhage) will have low blood pressure (25 Marks)
 - 2.3. Patients sustaining head injury may not remember the events leading to the accident (25 Marks)
 - 2.4. Persons engaging in late night study for one week to prepare for an examination and driving motorcycle are at risk of meeting with Road Traffic Accident (25 Marks)

3. Explain the following:
 - 3.1. Myopia (short sightedness) (25 Marks)
 - 3.2. Conduction deafness (25 Marks)
 - 3.3. Motion sickness (25 Marks)
 - 3.4. Sniffing for perception of smell (25 Marks)

4. Discuss the role of dietary fiber in preventing the following:
 - 4.1. Overeating (30 Marks)
 - 4.2. Hyperglycemia after meals (35 Marks)
 - 4.3. Constipation (35 Marks)

5. Briefly explain basis of the presence of the following substances in urine:
- 5.1. Hemoglobin (25 Marks)
 - 5.2. Albumin (25 Marks)
 - 5.3. Glucose (25 Marks)
 - 5.4. Calcium oxalate crystals (25 Marks)
6. Explain how subfertility/contraception is caused by the following:
- 6.1. Insulated under-wears in males (25 Marks)
 - 6.2. Mumps virus infection in childhood (25 Marks)
 - 6.3. Progesterone in females (25 Marks)
 - 6.4. IUCD in females (25 Marks)