

UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES  
First Year Second Semester Examination in BScHons (MLS) - 2019

PHYSIOLOGY FOR MLS II (MLSPM 1243) - PAPER II

Date: 18.01.2022

Time: 2 hours

ANSWER ALL THE SIX QUESTIONS.

1. Briefly explain the physiological basis of the following.
  - 1.1. Glycosuria when plasma glucose level is 250 mg/dl (40 Marks)
  - 1.2. In certain patients with hyperthyroidism TSH level is reduced (30 Marks)
  - 1.3. Wasting of muscles in Cushing disease (30 Marks)
  
2.
  - 2.1. Describe the pathway for transmission of pain sensation from left index finger to primary sensory cortex (40 Marks)
  - 2.2. Briefly describe knee jerk (stretch reflex) (40 Marks)
  - 2.3. List 4 signs of lower motor neuron lesion. (20 Marks)
  
3. Write notes on:
  - 3.1. REM sleep (50 Marks)
  - 3.2. Retina (50 Marks)
  
4. Briefly explain the physiological basis of the following observations.
  - 4.1. Reduced urine specific gravity in diabetes insipidus (35 Marks)
  - 4.2. Proteinuria in glomerular disease (30 Marks)
  - 4.3. Reduced urine pH in respiratory diseases. (35 Marks)
  
5. Describe:
  - 5.1. Vomiting (50 Marks)
  - 5.2. Defecation (50 Marks)
  
6. Briefly explain the physiological basis of the following
  - 6.1. Urine test to confirm the pregnancy (35 Marks)
  - 6.2. Reduction in sperm count after prolonged exposure to high temperature (35 Marks)
  - 6.3. Measuring blood progesterone level to detect ovulation (30 Marks)