

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHEMICAL PATHOLOGY
EXAMINATION – NOVEMBER 2013

Date :- 19th November 2013

Time :- 9.00 a.m. – 11.00 a.m.

ESSAY PAPER

All four questions to be answered.

Use a separate book for each question.

Write legibly.

1. Write short notes on **clinical significance** of any **three (03)** of the following (each component carries equal marks)
 - 1.1. Magnesium
 - 1.2. Cystatin C
 - 1.3. Lead poisoning
 - 1.4. Syndrome of inappropriate antidiuretic hormone secretion (SIADH) (100 marks)

2. Describe **one method** for the measurement of any **three (03)** of the following, including specimen collection, analytical principle, calibration and interfering substances. (each component carries equal marks)
 - 2.1. Cerebrospinal fluid (CSF) proteins
 - 2.2. Triglycerides
 - 2.3. Lithium
 - 2.4. Parathyroid hormone (PTH) (100 marks)

3. Discuss the biochemical investigations you would do to diagnose and manage a 25-year-old obese female. (100 marks)

4.
 - 4.1. Describe the principles of spectrophotometry.
 - 4.2. Discuss the different applications of spectrophotometry in the clinical biochemistry laboratory giving examples. (each component carries equal marks) (100 marks)