

M@S1-1

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHEMICAL PATHOLOGY
EXAMINATION – NOVEMBER 2011

Date : 21 November 2011

Time: 1.00 p.m. – 3.00 p.m.

All four questions to be answered.

All questions carry equal marks.

Use a separate book for each question.

Write legibly.

1. Discuss the clinical significance of the measurement of **any three (3)** of the following.
 - 1.1 Serum bilirubin (total and conjugated)
 - 1.2 β -hCG
 - 1.3 Cortisol
 - 1.4 Cardiac troponins

2. Describe the analytical principle of one method for the **measurement of any three (3)** of the following. Where appropriate, include comments on specimen collection, calibration and interfering substances.
 - 2.1 Serum low-density lipoprotein (LDL) cholesterol
 - 2.2 Serum ionized calcium
 - 2.3 Serum thyroid stimulating hormone (TSH)
 - 2.4 Urine porphobilinogen

3. Discuss critically the biochemical tests available for the diagnosis and management of chronic kidney disease.

4. Discuss the factors you consider in the introduction of a new test into the routine Chemical Pathology laboratory service.