

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHEMICAL PATHOLOGY
EXAMINATION JULY, 2015

Date: 13th July 2015

Time: 9.30 a.m. – 11.30 a.m.

ESSAY PAPER

All four questions to be answered.
Use a separate book for each question.
Write legibly.

1. Discuss the **clinical significance** of any **three (03)** of the following.
(Each component carries equal marks).
 - 1.1 CA 125
 - 1.2 Chloride
 - 1.3 Non-high-density lipoprotein (Non-HDL) cholesterol
 - 1.4 17-hydroxyprogesterone (17-OHP) (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 Serum Creatinine
 - 2.2 C-reactive protein (CRP)
 - 2.3 Blood lead (Pb) levels
 - 2.4 Blood ammonia levels (100 marks)

3. There have been complaints from the wards that the plasma glucose results reported by the laboratory were lower than the expected during the last two weeks.
Discuss how you would investigate this complaint. (100 marks)

4. Discuss the role of the Chemical Pathology laboratory in the diagnosis and management of patients suspected to have hypothyroidism. (100 marks)