

POSTGRADUATE INSTITUTE OF MEDICINE  
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHEMICAL PATHOLOGY  
EXAMINATION – JUNE 2018

Date :- 18<sup>th</sup> June 2018

Time :- 9.30 a.m. – 11.30 a.m.

ESSAY PAPER

All four (04) questions to be answered.  
Use a separate book for each question.  
Write legibly.

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1. Discuss the **clinical significance** of any **three (03)** of the following (Each component carries equal marks)
  - 1.1. Brain natriuretic peptide (BNP)
  - 1.2. Ferritin
  - 1.3. Urine creatinine
  - 1.4. Bicarbonate ( $\text{HCO}_3^-$ ) (100 marks)
  
2. Describe **one (01)** 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. Adrenocorticotrophic Hormone (ACTH)
  - 2.2. Urine organic acids
  - 2.3. Blood pH
  - 2.4. Cerebrospinal fluid (CSF) protein (100 marks)
  
3. Discuss the biochemical investigations available for the diagnosis and management of metabolic bone disease. (100 marks)
  
4. There have been complaints from clinicians regarding delays in receiving immunoassay reports.  
Discuss how would you investigate and resolve this problem. (100 marks)