

Cork Institute of Technology

Masters in Biomedical Sciences - Award

(NFQ – Level 9)

Summer 2007

BM5012 – Endocrinology and Metabolic Disease

(Time: 3 Hours)

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Answer 4 Questions

Use a Separate Answer Book for Each Question

- Q1. Outline the role of the clinical biochemistry laboratory in the diagnosis and management of patients with Cushing's Syndrome.
- Q2. The Polycystic Ovary Syndrome (PCOS) is an interesting condition with endocrine and metabolic consequences. Give your views on this statement.
- Q3. Describe the biochemistry of hypothyroidism. Discuss the role of the clinical biochemistry laboratory in the diagnosis and management of this condition.
- Q4. Discuss the differential diagnosis of a 55 year old woman who presents to her General Practitioner and is found to have a calcium of 3.00mmol/L.
Outline the biochemical testing that would be useful in making a diagnosis.

- Q5. Write an essay on the diagnosis of Pheochromocytoma.
- Q6. “All living organisms depend upon a large and intricate array of chemical signalling systems to guide biological development and regulate cell and organ activity. The science of endocrine disruption investigates the ability of common environmental contaminants to interfere with these sensitive systems.” Discuss.