

Examination for  
(MS Clinical Pathology)  
Course Title: clinical chemistry  
Date:28/10/2020  
Time Allowed:3 hours  
Total Assessment Marks: 100



Tanta University Faculty  
Medicine Department of Cli  
Pathology

**All questions must be answered**

**1-Discuss the following:**

- a. Hyponatremia, definition, clinical significance, causes, differential diagnosis and mention in details the principle and components of one method of its assay 20
- b. Causes and laboratory investigations of hypothyroidism 10

**2- Give an account on:**

- a. Alkaline phosphatase iso- enzyme and its clinical significance 10
- b. Hypoglycemia, definition, causes and Diagnostic approach 10

**3- Describe in brief:**

- a. Laboratory investigations and differential diagnostic of acute hepatitis 10
- b. Polyurea ; causes and laboratory approach 10

**4- Discuss in brief:**

- a. Laboratory investigations for a suspected case of meningitis 5
- b. Renal tubular acidosis; laboratory finding and its clinical significance 10

**5- Give short notes on :**

- a- Anion gap 10
- b-Reverse cholesterol transport pathway 5

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رئيس القسم  
أ.د/ منال عبد الواحد عيد