Examination for (MD Clinical Pathology)
Course Title: 1st Paper (Clinical Chemistry)

Date: 13/10/2012 Term: October 2012 Time Allowed: 3 hours

Total Assessment Marks: 40



Tanta University
Faculty of Medicine
Department of Clinical Pathology

# All questions must be answered

Q1:

- a) Mention types of abnormal plasma proteins and its laboratory assessments
- b) Discuss renal osteodystrophy

Q2:

- a) Describe quality control charts, general principle and clinical applications in the lab
- b) Define insulin resistance, cause, role in metabolic syndrome and its laboratory assessments

Q3:

- a) Define oncogenes and oncosuppressor genes, discus its role in the pathogenesis and prevention in cancer and its laboratory assessments
- b) Define urinary net charge and discuss its clinical significances

**Examination for (MD Clinical Pathology)** 

Course Title: 1st Paper

Date: 13/10/2012 Term: October 2012 Time Allowed: 3 hours

**Total Assessment Marks: 40** 



Tanta University
Faculty of Medicine
Department of Clinical Pathology

# All questions must be answered

#### Q1:

- a) Describe methods of detecting amplified nucleic acid sequences
- b) Discuss etiology and laboratory assessments of anemia in infancy and childhood

## Q2

- A) Outline lipoprotein abnormalities associated with increased risk of coronary heart diseases
- B) Define the biochemical features in diabetic patients presenting with coma
- C) Recognize neonatal hyperbilirubinemia

### Q3:

- a) Describe enzymes as a tumor markers
- b) Mention the pathogens transmitted by blood transfusion and methods of its detections
- c) Give a short account on the significance and mechanisms of immunologic tolerance

