

**Tanta University**  
**Faculty of Medicine**  
**Department Of Medical Biochemistry**

**Date: 13/4/2017**

**Medical Biochemistry Internal Medicine Diploma Degree**

**Write short note on the following:**

- 1- Gene therapy and its suggested applications.**
- 2- Insulin resistance**
- 3- Hormones that play role in control of body weight and obesity.**

**Good luck**



**All questions must be answered (6 questions) (180 marks)/The exam. is in two pages.**

**Q1 :**

37 year old man presents with weakness, fatigue, polydipsia, polyuria, and increased skin color for the last 4 months. Physical examination reveals hepatomegaly. Lab results revealed aspartate aminotransferase 138 U/L, alanine aminotransferase 136U/L, Blood glucose 210mg/dl, transferrin saturation 62% , serum ferritin 1,610ng/ml (normal 30 to 300ng/ml).

- a. What is the most likely diagnosis (6 marks)
- b. management of this case (12 marks )
- c. causes of secondary diabetes mellitus (12 marks )

**Q 2 : Give an account on:**

- a. transmission, clinical picture and complications of brucellosis (10marks)
- b. Causes of fever with skin rash. (10marks)
- c. Amebic liver abscess clinical picture , management. (10marks)

**Q3 :**

A 25 year's old man presented to the clinic complaining of several days of pain upon Micturition and Left hip, left knee and right ankle pain. He states that all of these symptoms Were preceded two weeks ago by diarrhea and gastroenteritis. His examination is significant For severe conjunctivitis of his right eye.

- a. What is the most likely diagnosis? (6marks) and explain (6 marks )
- b. Describe diagnostic criteria and management of SLE (18 marks)

**Q 4:**

Describe pathogenesis , clinical presentations and management of scleroderma.  
(30 marks)

**Q 5: give short account on :**

Respiratory failure , causes clinical picture and management (30 marks )

**Q 6: give short account on :**

Causes and investigation of hemolytic anemia (30 marks )

ملحوظه:

يتم مراجعته قسم الباطنة العامة لمعرفة موعد الاختبارات العملية

**Good luck**



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**Q 1 :**

37 year old man **with history** of ulcerative colitis controlled on treatment. **Presents** with fatigue, pruritus, and fatigue for the past 4 months. He reports no fever, chills, or weight loss and takes no other medications. He has temperature of 37, blood pressure of 118/80 mmhg heart rate 82 beats per minutes, respiratory rate 20 cycle per minute. **Physical examination** revealed tenderness in right upper quadrant. There is no hepatomegaly and negative murphy sign. **Lab results** reveal an alkaline phosphatase level of 910U/L, ESR 160 mm/h, bilirubin 3mg (2mg direct ) and positive p-ANCA antibodies.

- a. What is the most likely diagnosis (6 marks)
- b Treatment of ulcerative colitis (12 marks)
- c. causes chronic diarrhea (12 marks)

**Q 2 :**

- a. What are the Causes, manifestations and treatment of portal hypertension (20 marks)
- b. Differential diagnosis of proteinuria (10 marks)

**Q 3 :**

An 82 year old man is found collapsed at home by his daughter ,she reports that her father showed frequent episodes of dizziness over the previos3 months, occurred early morning and relieved by 2-4 cups of juice. he is known to have hypertension .DM on 20 units insulin and controlled heart failure. abdominal ultrasound and CT brain are normal

- a. what is the most likely diagnosis (6 marks )
- b. coma in diabetic patients causes, differential diagnosis and management (24 marks )

Q 4:

- a. Describe management and complications of acute myocardial infarction. (15 marks)
- b. causes and investigation of secondary hypertension (15 marks)

Q 5:

A 24 years old man presents to the hospital ,complains of shortness of breath and decrease urine output . **Past history** of face puffiness and bloody urine at the age of 8 years. **On examination** he is pale , tachypnic with puffiness of the face and bilateral pitting lower limb edema .Bl p. 170/105mmHg,Temp. 37 C,RR 26 breath/min, pulse 112. Chest examination reveal bilateral basal crepitation with normal hear sound and no add sound. **investigations show** : HB:7.5 gm/dl, urea: 230mg/dl, creatinine :7.5 mg/dl

,K: 8mmol/L, Na:133 mmol/L. Abdominal ultrasound shows bilateral small size kidney.

- a. What is the most likely diagnosis (6 marks)
- b. management of such case (24 marks )

Q 6:

A 31 years old woman **presents** with difficulty breast feeding. she recently birthed a healthy baby via normal vaginal delivery with moderately heavy blood loss. The patient also noted diffusely dry skin, cold intolerance, and weight gain. she has not initiated her menstrual cycle yet. **physical examination** reveals diffuse xerosis and thinning hair.

- a. What is the most likely diagnosis (6 marks )
- b. management of such case (24 marks )

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