

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

**First part examination (Medical Biochemistry) for Master degree  
in Internal Medicine**

**Date: 22/8/2021**

**All questions should be answered**

**Write short notes on the following items**

1. Insulin resistance and metabolic abnormalities in type 2 diabetes mellitus
2. Polymerase chain reaction and its usage
3. Biochemical aspect and changes occur in different types of jaundice

**Good luck**

تنبيه هام : سوف يعقد اختبار الشفوى بالقسم يوم الاربعاء الموافق 2021/9/1.

**Exam of Medical Biochemistry for Master Degree of Cardiology (first part)**

**A- Choose the correct answer:**

<b>1- On the third day of onset of acute myocardial infarction the enzyme elevated is</b> (A) AST (B) CK (C) LDH (D) ALT	<b>2- Which of the following lipoproteins would contribute to a measurement of plasma cholesterol in a normal individual following a 12 hr fast?</b> (A) Chylomicrons (B) VLDL (C) Both VLDL and LDL (D) LDL
<b>3- Lovastatin is</b> (A) Competitive inhibitor of acetyl CoA carboxylase (B) Competitive inhibitor of HMG CoA synthetase (C) Non-competitive inhibitor of HMG CoA reductase (D) Competitive inhibitor of HMG CoA reductase	<b>4- In early stages of myocardial ischemia the most sensitive indicator is the measurement of the activity of</b> (A) CPK (B) SGPT (C) SGOT (D) LDH
<b>5- Cardiac muscle contains which of the following CK isoenzyme?</b> (A) BB only (B) MM and BB only (C) MM, BB and MB (D) MM and MB only	<b>6- The major storage form of lipids is</b> (A) Esterified cholesterol (B) Glycerophospholipids (C) Triglycerides (D) Sphingolipids

**B- Answer all of the following questions:**

- 1- Enumerate factors affecting regulation of the cholesterol level in hepatocytes?**
- 2- Give an account on Omega-3 fatty acids and its clinical importance?**
- 3- Give an account on Type IIa Hypercholesterolemia?**
- 4- Enumerate cardiac specific and non-cardiac conditions associated with increased troponin blood level?**

Good luck and best wishes

الامتحان الشفوي يوم الثلاثاء الموافق ٢٠٢١/٨/١٧

مع الالتزام بكافة الاجراءات الاحترازية الساعة الواحدة بالقسم