

Course Title: Medical Biochemistry II

RAD 2nd, Sec A

Lab Assignment

Student Name:

Student ID:

Note: Avoid copy paste material, as it may deduct your marks.

Q1. Explain the process of Uric Acid Formation.

Q2. Discuss all the protein complexes used in Electron transport chain.

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Semester 2nd

Section A

Department B.S Radiology

QNo (1)

Ans

Uric acids is a chemical created when the body break down substance called purines

Are normally produce in the body and are also found in some food and drinks.

Food with high content of purines include, liver anchovies, mackerel dried bean and peas and beer.

Most uric acids dissolve in blood and travel to kidney. from there it passes out in urine. if your body produce too much uric acids or does not remove enough of it. you can get sick .a high level of uric acids in the blood is called hyperuricemia.

This test checks to see how much uric acids you have in your blood. another test is used to check uric acids in your urine.

QNo (2)

Ans

There are four protein complexes (labeled complexes) I-IV) in the electron transport chain.

Which are involved in moving electron from NADH and FADH₂ to molecular oxygen.

Complexes I established the hydrogen ion gradient

By pumping four hydrogen ion across the membrane from the matrix into the intermembrane space. complex II receive FADH₂. Which bypass complex I, and

deliver the Electron directly to the
Electron transport chain

Ubiquinone (Q) accept electron from
both complex I and complex II and
delivered them to the complex III

Complex III pump protons through The
membrane

And passe its electron to cytochrome c for
the transport to the fourth complex protein
and enzymes.

Complex I reduced oxygen. the the
reduced oxygen then pick up two
hydrogen ion from the sounding madium
to make water.

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