

Course Title: Medical Biochemistry II

RAD 2nd, Sec A

Lab Assignment

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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.

QN1.

Ans. Uric acid is a chemical created when the body breaks down a substance called purine. Purines are normally produced in the body and are found in some food and drinks. Food with high content of purine are liver, mackerel, dried bean and peas. Most uric acid dissolves in blood and travel to the kidney. From there it passes out in urine. If your body produces too much uric acid or does not remove enough of it, you can get sick. A high level of uric acid in the blood is called hyperuricemia. This test checks to see how much uric acid you have in your blood. Another test is used to check the level of uric acid in urine.

QN.2.

Ans. There are four protein complexes in the electron transport chain which are involved in moving electrons from NADH and FADH₂ to molecular oxygen.

Complex I establish the hydrogen ions gradient by pumping four hydrogen ions across the membrane from the matrix into the intermembran space.

Complex II receive FADH₂. Which bypass complex I, and deliver electron directly to electron transport chain. Ubiquinone accept the electron from both the complex I and complex II and deliver them to complex III.

Complex III pump protons through the membrane and pass it electron to cytochrome C for transport to the fourth complex of protein and enzyme.

Complex IV reduce oxygen, The reduce oxygen then pick up two hydrogen ions From the surrounding medium to make water .

The end