

School of Basic and Applied Sciences

Biological Science

ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem IV - C2UA401T - Metabolism of Biomolecules

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. List out the name of serum enzyme used in the diagnosis of Liver disease. K1 CO1 (5)
2. What are Triglycerides? Mention any three biological importance. K1 CO3 (5)
3. Write the difference between oxidative and substrate level of phosphorylation. K2 CO2 (5)
4. Evaluate the process of Glycogenolysis. Add a note on the Glycogen storage disease. K4 CO5 (10)
5. Summaries the Inhibitors and uncouplers of oxidative phosphorylation. K2 CO6 (10)
6. What is myocardial infraction (MI)? List out the name of serum enzymes for diagnosis of MI. K3 CO5 (10)
- 7) Write a note on regulation of cholesterol biosynthesis. K3 CO2 (10)

OR

- What role does Acetyl-CoA play in the body? Explain. K3 CO2 (10)
- 8) Illustrate the classification of Fatty acid, and add a note on the functions of PUFA. K4 CO5 (15)

OR

- Describe the Components, organization, and mechanism of ETC in mitochondria. K4 CO5 (15)
9. Elucidate the process of fatty acid breakdown in liver. K4 CO4 (15)
 10. Evaluate then process of Mevalonate pathway. K3 CO3 (15)