CBCS SCHEME

		SPSS SULLENIS	
USN			18BT46
E est.	Carl N	Fourth Semester B.E. Degree Examination, Dec.2023/Jan.	2024
201 Pr	Contraction of the Contraction o	Clinical Biochemistry	
Tin	ne: í	3 hrs. Max. I	Marks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each	module.
		Module-1	
1	a.	What is Oxidative phosphorylation? Briefly explain the process of electron electron transport chain.	
	b.	Illustrate the gluconogenetic pathway highlighting the irreversible reactions.	(10 Marks) Add a note on
		its regulation.	(10 Marks)
		OR	
2	a.	What is β – oxidation? With a schematic diagram, explain β – oxidation. How	w many acety
	1.	COA molecules are produced when palmitate undergoes β - oxidation.	(10 Marks)
	b.	Write short notes on :i) Starch biosynthesisii) Cholesterol structure.	(10 Marks)
		i) Statestere structure.	(10 1viai Ks)
2		Circa second of the annion of the second of	
3	a.	Give an account of the various types of diabetes mellitus highlighting their pa and symptoms.	thophysiology (10 Marks)
	b.	Critically evaluate the measurement of glycated haemoglobin. Add a	
12° 3		significance.	(10 Marks)
		OR A	
4	a.	Discuss the pathophysology and symptoms of multiple sclerosis. Add a note	e on how it is
	h	different from Sphingolipidoses.	(10 Marks)
	b.	Write short notes on: i) Apolipoproteins ii) Ketone bodies importance.	(10 Marks)
			(101111113)
_		Module-3	
5	a. b.	Discuss the biosynthesis of lysine with a schematic diagram. Explain the role of Transamination and Deamination in the Catabolism of e	(10 Marks)
		acids.	(10 Marks)
6	a.	OR Briefly outline the salient features of urea cycle, with the metabolic reactions in	nvolved
			(10 Marks)
	b.	Discuss the metabolism and purine nucleotides.	(10 Marks)
		Module-4	
7	a.	Give an account on the molecular basis and Pathophysiology of Tyrosinemia.	(10 Marks)
	b.	Discuss any two disorders of purine metabolism.	(10 Marks)

OR

8 a. Explain in detail the hormones secreted by anterior and posterior pituitary glands. (10 Marks)
b. Briefly discuss the disturbances in thyroid functions. (10 Marks)

Module-5

- 9 a. Give an account on the tests conducted to investigate the Glomerular function. (10 Marks)
 - b. Explain the role of Creatine Kinase and lactate dehydrogenase in myocardial infarction.
 (10 Marks)

OR

- 10 a. Discuss the various liver function tests and their clinical importance. (10 Marks)
 - b. Give an account of the enzymes of pancreatic origin.