GBCS SCHEME

18BT46

(06 Marks)

(08 Marks)

Fourth Semester B.E. Degree Examination, July/August 2021 Clinical Biochemistry

BANGAL OR Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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1	a. b.	Elaborate the steps involved in the conversion of glucose of Pyruvate. i) Write the significance of Glycolysis and Kreb's cycle. ii) Give a brief note on fate of Pyruvate.	(10 Marks) (06 Marks) (04 Marks)
2	a.	Mitochondrial matrix is a pool for the formation of NADH, FADH ₂ and ATP.	Elaborate.
	b.	 i) Explain in detail the reaction sequence of PPP. ii) Give the summary of ATP yield from complete aerobic oxidation of glucose. 	(10 Marks) (08 Marks)
3	a. b.	In detail explain the Pathophysiology of Lipidosis. Discuss in detail about the Clinical symptoms, Diagnostic tests and treatmed disorder associated with Hb.	(10 Marks) ent for the (10 Marks)
4	a. b.	Elaborate on the pathophysiology of Diabetes Mellitus in detail. Write short notes on: i) Kotone bodies and their significance ii) Galectosemia.	(10 Marks) (10 Marks)
5	a.	Explain Urea cycle in detail and discuss its regulation.	
	b.	Explain the Catabolism of Phenylalanine.	(10 Marks) (10 Marks)
6	Ela a. b. c.	borate on the following: Biosynthesis and Catobolism of Glutamine. Transamination and Deamination reactions with examples. Regulation of Porine and Pyrimidine denovo pathway.	(08 Marks) (06 Marks) (06 Marks)
7	a. b.	Discuss Alkaptonuria under: Enzyme defect and Clinical manisfestation. Elaborate the genetic situation with the lack of phenylanine hydroxylare enzyme acid metabolism and add a note on its related symptomes.	(10 Marks) e in amino (10 Marks)
8	a. b.	Evaluin Postorior Ditaitore la come de 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(10 Marks)
9	a.	What should be your analysis approach when you suspect that the patient	(10 Marks) may have (10 Marks)
	b.	Discuss Engages of Domestation with the 1	(10 Marks)
10	a.	Explain the clinical importance of yellow compound which is produced by the cat old RBCs.	abolism of (06 Marks)
	h	Discuss the following:	

ii) Clinical significance of SGPT (A L T) and SGOT (A S T)

b. Discuss the following:

i) Intestinal function tests.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.