4/5/13 Sem-TV (Rev.) Reg. Bio chemistry - TT 20:1st half.13-shilpa(f) Con. 2373-13. (REVISED COURSE) DC-7087

		•	(2 Hours)	[Total Marks : 40	
N.B		<ol> <li>Questions No. 1 is compul</li> <li>Attempt any four questions</li> </ol>		g <b>six</b> questions.	
1.	(a) Discuss Glycolysis in general (along with structures, enzymes and co-factors).				6
	(b)	Explain how it differs in RBCs?  (b) Calculate energy in terms of ATP for complete metabolic degradation of fatty acid with formula 20: 4			
2.	read ( ( (	e the names and structures of totions:— (any <b>four</b> )  (a) β — keto acyl ACP reducta  (b) Aldolase  (c) Lactate dehydrogenase  (d) Adenylsuccinate syntheta  (e) β — hydroxyacyl CoA deh  (f) Glucose 6 — phosphate de  (g) Transketolase.	ase ase aydrogenase	products of the following enzym	8
3.	<ul><li>(a) "Energy of the universe is conserved though transfer of one form to other form of energy in living organism is possible", Justify.</li><li>(b) What is the role of various organs in absorbtion and distribution of lipids in the body?</li></ul>				4
					4
4.	(a) If lipid profile of a person shows high LDL and cholesterol levels, suggest a				4
		suitable drug and discuss its effect on biochemical process / enzyme(s) involved.  (b) Describe biosynthesis of pyrimidine base pair of RNA (CTP).			
5.		Describe TCA cycle and expla Differentiate between oxidativ		ed as open cycle ? on and photophosphorylation.	6
6.	, ,	(a) "ATP as a carrier of energy" Justify. What is oxidation? State on carbon in carbondioxide? (b) Write a note on Ketogenesis.			
7.	the e (a (b	enzymes required for the conval a) Squalene to squalene epo b) Xanthine to uric acid c) Malonyl CoA to Malonyl A	version (any <b>four</b> exide CP	as well as product and name ):-  osyl-α-pyrophosphate (PRPP)	8

(e) L - methylmalonyl CoA to succinyl CoA

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(f) Pyruvate to oxaloacetate.