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		500-A
	M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2014 FIRST M.B.B.S. EXAMINATION BIOCHEMISTRY	
PAPER-I Time : 2 ¹ / ₂ Hours Max. Marks: 50		
1111C . 2 /	Answer all questions	unds. 50
1)	Describe the process of β (beta) – oxidation of fatty acids. Add a note on the energetics of the pathway.	7+3=10
2)	A 6 year boy was taken to the hospital by his mother with complaints of decreased vision in the night. The doctor suspected a possible vitamin A deficiency. Describe in detail the sources, RDA, functions and deficiency manifestation of the deficient nutrient. What other clinical features, the doctor has to look for in this case and what advice should be given?	1+1+3+3+2=10
	WRITE SHORT NOTES ON:	5x4=20
3)	Describe briefly the hormonal regulation of blood glucose levels.	
4)	Draw a plot of Competitive enzyme inhibition. Give 2 examples of competitive inhibitors.	
5)	Briefly explain the following: i) Specific Dynamic Action ii) Glycemic index	
6)	Describe the clinical significance of the following enzymes: i) LDH ii) Alkaline phosphatase iii) Creatine kinase iv) Amylase v) Alanine transaminase	
7)	Give an outline of the electron transport chain including ATP generating sites	
	WRITE BRIEFLY ON:	5x2=10
8)	Absolute specificity enzymes	
9)	Altered CNS behavior in patients with advanced liver disease.	
10)	Ethanol is administered in patients with methanol poisoning	
11)	Mention functions of Hemoglobinopathies	
,	Lactose intolerance	

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