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		D ₁	K23P 3301
Reg. No. :			
Name :	*		
I Semester	M.Sc. Degree (CBSS – Sup Examination, 0 (2014 to 2022) ZOOL	October 2023 Admissions) OGY	Chance)/Imp.)
	ZOO1C02 : Biolog	gical Chemistry	
Time : 3 Hour	S	N	Max. Marks: 60
I. Answer a	ny two of the following:		
1) Explair	n in detail about electron transp	port system in mitochondria	a.
2) Discus	s structure of proteins. Add a r	note on protein folding.	
3) Derive	Michaeli-Menten equation. Given	ve the significance of $K_{_{\rm M}}$ ar	nd V _{max} values.
4) Discus	s in detail about the regulation	of fatty acid metabolism.	(2×12=24)
II. Answer ar	ny two of the following:		
5) Explain	deamination, transamination	and transmethylation with e	examples.
6) Give ar	account of histidine metabolis	sm.	
7) Discuss	s glycogenesis and glycogenol	ysis.	
8) Explain	pentose phosphate pathway.		(2×8=16)
III. Answer an	y four of the following:		

 $(4 \times 5 = 20)$

9) What are sugar acids?

14) What are sphingolipids?

11) Discuss chemiosmotic coupling.

12) Distinguish enthalpy and entropy.

13) Give an account on enzyme inhibition.

10) What is zwitter ion ?