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	Redd y Degree
-	et Title: Bioenergetics, Biological Oxidations Prepared by: S. Thejaswi
Year: II Updated on: 19-8- Unit - I: BIOENERGETICS	
Essay Questions	
1.	Write about the structure, Types and functions of Cytochromes?
2.	Write briefly about High energy Compounds and Free energy?
3.	Define High energy compounds? Write about its classification with examples?
	Short Questions
4.	Substrate level phosphorylation
5.	Phosphate Transfer potential
6.	Exergonic & Endergonic reaction
7.	Entropy & enthalpy
Unit - II: Biological Oxidation	
	Essay Questions
8.	Write about the Various complexes involved in electron transport chain?
9.	Define oxidative phosphorylation? Explain the theories proposed for it?
10.	Define photosynthesis? Write about the Cyclic and Non cyclic oxidation?
	Short Questions
11.	Uncouplers.
12.	Standard redox potential & its Examples.
13.	Formation Reactive oxygen Species.
14.	Inhibitors of ETC
15.	F ₀ - F ₁ ATPase
Unit - III: Introduction To Enzymology:	
	Essay Questions
16.	Write about the nomenclature and the classification of Enzymes?
17.	Explain the methods of Enzyme purification ?

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- 18. Difference Between catalyst & Biocatalyst?
- 19. Explain the principles of activation &transition state? Write about the models of interaction between enzyme & substrate?

Short Questions

- 20. Active Site
- 21. Enzyme specificity
- 22. Coenzyme
- 23. Apo enzyme ,Enzyme Units
- 24. Lock & Key Model
- Unit IV: Enzyme kinetics and Enzyme action

Essay Questions

- 25. Write about the mechanism of enzyme action?
- 26. Derive Michaelis Menton Equation for single substrate reaction? Significance of K_m& Vmax
- 27. Write about the types of enzyme inhibition with examples?
- 28. Define Allosterism? Explain the allosterism with example?
- 29. Write about the various factors affecting the catalysis?

- viulti enzyme Complexes
 32. Covalent modification of Enymes
 33. Zymogens Activation
 34. Ribozyme