

Code No: PH103**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****Pharm.D I Year Supplementary Examinations, October/November - 2019****MEDICAL BIOCHEMISTRY****Time: 3hours****Max.Marks:70**

Answer any five questions
All questions carry equal marks

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1. Discuss in detail about the Cell and its biochemical organization. Write a brief note on energy rich compounds. [14]
- 2.a) What are Enzymes? Give its Nomenclature.
b) Describe the IUB classification of enzymes. [7+7]
3. What are Isoenzymes? Discuss in detail the therapeutic and diagnostic applications of Isoenzymes. [14]
4. Write a brief account on the following:
a) Citric acid cycle (TCA cycle)
b) Gluconeogenesis. [7+7]
5. Describe the following:
a) Biosynthesis of fatty acids,
b) Metabolism of cholesterol. [7+7]
6. Discuss in detail about the Biological oxidation with an example. [14]
- 7.a) Discuss in detail the Protein and amino acid metabolism with one example.
b) Describe in detail about Nucleic acid metabolism. [7+7]
- 8.a) Discuss the physiological role of liver. Explain how liver play an important role in the metabolic, storage, excretory, protective, circulatory functions.
b) What are Lipoproteins? Discuss in detail their composition and functions. [7+7]

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