

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary Winter 2023

Date: 08/01/2024

Course : B. Pharmacy

Subject Name: Biochemistry

Max Marks : 75

Sem: II

Subject Code: BP203T

Duration : 3 hrs.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

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Q. 1. Objective Type Questions (Answer all the questions)

(10 x 2) = 20

- i) Classify lipids with suitable examples.
- ii) Draw the structures of Sucrose and Starch.
- iii) What are Purine and Pyrimidine bases.
- iv) Draw the double helix structure of DNA.
- v) Define Essential and Non-essential amino acids.
- vi) Define Redox potential and Energy rich compounds.
- vii) What is Gluconeogenesis and HMP shunt.
- viii) Give the difference between DNA and RNA.
- ix) Define Endergonic and Exergonic reactions.
- x) Draw the structures of  $\alpha$ -helix and  $\beta$ -Pleated sheet.

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Q.2 Long Answers (Answer 2 out of 3)

(2x10) = 20

- i) Define and classify Proteins with example. Explain the various reactions involved in Urea cycle and its disorders.
- ii) What are lipids. Write in detail about ketogenesis. Give the disorders of lipid metabolism.
- iii) Define Glycolysis. Explain the pathway of glycolysis with energy production. Write a note on Glycogen Storage disease.

Q.3 Short Answers (Answer 7 out of 9)

(7x5) = 35

- i) Give the reaction sequence in Gluconeogenesis.
- ii) Describe the Electron transport chain.
- iii) Explain Transamination in brief.
- iv) Define Enzymes and Co-enzymes. Give the IUB classification with example.
- v) Explain stages involved in RNA Transcription.

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- vi) Write a short note on Diabetes Mellites.
- vii) What is ketoacidosis. Give the formation of Ketone bodies.
- viii) Write a note on Enzyme Inhibition.
- ix) Explain DNA Replication.

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