

Course : B. Pharmacy  
Subject Name : Biochemistry  
Max Marks : 75

Sem : II  
Subject Code : BP203T  
Duration : 3hr

Instructions:

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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) Define transamination and deamination. 1/2

ii) Write differences between DNA and RNA. 02 <https://pharmacyindia.co.in/>

iii) Define endergonic and exergonic reactions. 1/2

iv) Give biological significance of cholesterol. 1/2

v) Define nucleosides and nucleotides. 1/2

vi) Write the biological functions of proteins. 1

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vii) Draw structures of Sucrose and Tyrosine. 0

viii) Define essential fatty acids with examples. 1/2

ix) What is fatty liver and phenylketonuria? 1/2

x) Define energy rich compounds with examples. 2

Q. 2. Long Answers (Answer 2 out of 3) <https://pharmacyindia.co.in/> (2 x 10) = 20

i) Explain the various reactions involved in the Citric acid cycle with energetics. 07

ii) Explain  $\beta$ -oxidation of fatty acid along with the energetics. 05

iii) Define Enzyme inhibitors and discuss different types of enzyme inhibitors.

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Q. 3. Short Answers (Answer 7 out of 9) (7 x 5) = 35

i) Explain electron transport chain.

ii) Give the reaction sequence of Glycolysis pathway. 03 1/2

iii) Define enzymes and classify them according to IUB with examples. 03 1/2

iv) Define carbohydrates classify them with example and give their biological significance. 03 <https://pharmacyindia.co.in/>

v) What is ketoacidosis? Write the formation of ketone bodies. 03 1/2

vi) Explain biosynthesis of purine. <https://pharmacyindia.co.in/>

vii) Describe the hormonal regulation of blood glucose level.

viii) Give the reaction sequence in Urea Cycle. 03

ix) Explain replication of DNA. 02 <https://pharmacyindia.co.in/>

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