



Paper id: 253101

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Subject Code: BP203T

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BPHARM
(SEM II) THEORY EXAMINATION 2024-25
BIOCHEMISTRY

TIME: 3 HRS**M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.**10 x 2 = 20**

a.	Identify the role of insulin in controlling blood glucose level.
b.	Define genetic code with example.
c.	Define competitive inhibitors.
d.	Define gluconeogenesis.
e.	Define atherosclerosis
f.	Differentiate essential and nonessential amino acids with examples
g.	Compare endergonic and exergonic reactions with examples.
h.	Write the full form of ATP, TPP, GTP and NADPH.
i.	List the disorders related to pyrimidine metabolism.
j.	Define glycogenesis

SECTION B

2. Attempt any two parts of the following:**2 x 10 = 20**

a.	Summarize Electron Transport Chain and Oxidative Phosphorylation with mechanism.
b.	Write in detail the mode of protein biosynthesis with schematic representations.
c.	Describe Citric Acid Cycle with energetics and significance.

SECTION C

3. Attempt any five parts of the following:**7 x 5 = 35**

a.	Describe in detail glycolysis along with its energetic and significance.
b.	What do you understand by the urea cycle and its disorders?
c.	Narrate Salvage pathway for purine biosynthesis.
d.	Briefly explain De novo synthesis of fatty acids.
e.	Explain IUB classification of Enzymes with examples.
f.	Describe disorders of lipid metabolism.
g.	Explain DNA replication (semiconservative model).