



PAPER ID-410973

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Subject Code: BP203T

Roll No:

BPHARMA
(SEM II) THEORY EXAMINATION 2023-24
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.	Define redox potential.
b.	Write the significance of cyclic AMP.
c.	Compare between normal and diabetic glucose levels.
d.	Write problems associated with G6PD deficiency.
e.	Define hypercholesterolemia.
f.	Write the role of 5-HT.
g.	Define allosteric enzyme.
h.	Enlist protein synthesis inhibitors.
i.	Define transamination.
j.	Write the importance of urea cycle.

SECTION B

2. Attempt any *two* parts of the following:

2 x 10 = 20

a.	How do you know the chemical nature of carbohydrates? Write the biological role of carbohydrates.
b.	Why citric acid cycle is important for any living organism? Justify your answer.
c.	Write the simplest way of classification of enzyme; write examples of each class also.

SECTION C

3. Attempt any *five* parts of the following:

7 x 5 = 35

a.	Why ATP is biologically significant molecule?
b.	Write the pathway of gluconeogenesis; when this pathway gets activated?
c.	Write the pathways of glycogen storage diseases.
d.	Write the biological significance of cholesterol.
e.	Compare the structure of DNA and RNA.
f.	Which enzymes are significant for diagnosis of cardiac problems?
g.	Write the general reactions of amino acids.