PAPER ID-310157

Subject Code: BP203T

Roll No: | | | | | | | | | | | | | |

BPHARM

(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.	What is B-oxidation of fatty acids.
b.	Outline the IUB classification of enzymes.
c.	Define electro transport chain.
d.	Write four difference between DNA and RNA.
e.	Define exothermic and endothermic reaction.
f.	Write significance of HMP shunt pathway.
g.	What is Phenylketonuria?
h.	Classify protein on the basis of structure with examples.
i.	Write down the biological role of nucleic acid?
j.	What are allosteric enzymes?

SECTION B

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

a.	Write the biosynthesis of ketone bodies and their utilization?
b.	Elaborate the derivation of Michaelis Menten Equation and also explain factors affecting enzyme activity.
c.	Explain the glycogen metabolism pathways and glycogen storage disease.

SECTION C

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

a.	What do you mean by competitive and non-competitive inhibitors. Write about their kinetics.
b.	Explain glycolysis pathway and its significance and energetic.
c.	Describe about the protein synthesis and their inhibitors.
d.	Discuss in detail about the De novo synthesis of fatty acids.
e.	Explain the hormonal regulation of blood glucose level. Summarize Diabetes Mellitus.
f.	Discuss the various energy rich compounds with their classification and structure.
g.	Discuss in detail about urea cycle. Also give the significance of urea cycle.