

**G-131003**

Seat No.

Bachelor of Physiotherapy (Sem. I) Examination**March / April — 2019****BPTOC - 103 : Biochemistry**

Time : 2 Hours]

[Total Marks : 40

- Instructions :** (1) Answers should be brief and to the point.
(2) Illustrate answers with suitable diagrams.
(3) Figures to the right indicate full marks.

SECTION - I**1 Long answer : (Any One out of Two) 1x15=15**

- (a) Describe Glycolysis along with its regulation and energetics.
- (b) Describe factors affecting enzyme activity. Describe competitive inhibition of enzymes with its examples.

2 Short answer : (Any Three out of Four) 3x5=15

- (a) Phospholipids
- (b) Urea cycle with its regulation
- (c) Watson crick model of DNA structure
- (d) Ketosis

3 Very short answer : (Any Five out of Seven) 5x2=10

- (a) Why **HDL** is considered as good cholesterol?
- (b) How, Vitamin A deficiency causes night blindness?
- (c) Why, Bile salts are required for digestion & absorption of lipids ?
- (d) Give examples of transaminases with their reactions.
- (e) How, Sucrose is an invert sugar ?
- (f) Give names of body buffers. Which is the predominant blood buffer for pH regulation ?
- (g) Why Coenzymes are known as second substrate ?

G-131003]**[340/8-10]**