

Roll No: _____

Enrollment No: _____

PARUL UNIVERSITY
Faculty of Physiotherapy
First Internal Examination 2016-17

Year: 1

Date: 25.01.17

Subject Code: 7101103

Time: 3 Hour

Subject Name: BIOCHEMISTRY

Total Marks: 35

Instructions:

1. All questions are mandatory
2. Figures to the right indicate full marks.
3. Draw Diagram wherever necessary.
4. Write separate sections on separate answer sheets.

SECTION - A

Q.1 Define carbohydrate. Write Classification of carbohydrate. Write detail about Glycolysis and its clinical significance. **[15]**

OR

Q.1 Vitamin A(Function,Source,RDA,Deficiency) **[15]**

Q.2 Write Short Notes (any two) **[10]**

- (a) Inhibitors of ETC
- (b) Rickets
- (c) Cori's cycle

SECTION – B

Q.3 Multiple Choice Question (each 1 Mark) **[10]**

1. Total number of isomers for glucose are

- (a) 16
- (b) 32
- (c) 64
- (d) 128

2. Shape of lactose osazones

- (a) Needle
- (b) Sunflower petal
- (c) Powder puff
- (d) Broom shaped

3. Which of these is not reducing sugar

- (a) Glucose
- (b) Fructose
- (c) Sucrose
- (d) Lactose

4. Which of these is Homoglycan of glucose

- (a) Hyaluronic acid
- (b) Chondroitin sulphate
- (c) Cellulose
- (d) Insulin

5. The osmotic effect of Sorbitol & Dulcitol are responsible for

- (a) Congenital cataract
- (b) Physiological jaundice
- (c) Retinitis pigmentosa
- (d) Juvenile hypertension

6. Scurvy is due to deficiency of which vitamin

- (a) A
- (b) B
- (c) C
- (d) K

7. Rickets is due to deficiency of which vitamin

- (a) A
- (b) B
- (c) C
- (d) K

8. Pellagra is due to deficiency of which vitamin

- (a) Cholecalciferol
- (b) Niacin
- (c) Retinol
- (d) Riboflavin

9. Which of the following vitamin help in blood clotting process?

- (a) A
- (b) B
- (c) C
- (d) K

10. Number of ATP generated from each molecule of $\text{NADH} + \text{H}^+$?

- (a) 1.5
- (b) 2.5
- (c) 3.5
- (d) 4.5