

PARUL UNIVERSITY**Faculty of Physiotherapy****BPT, Supplementary Examination, November -2017****Year: 1****Date: 29/11/2017****Subject Code: 07101103****Time: 10:00am to 12:00pm****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 Write in details about functions and deficiency symptoms of Fat soluble vitamins (Vitamin A,D,E and K) **(15)**

OR

Q.1 Discuss the factors affecting enzyme activity. Write about diagnostic and therapeutic uses of enzymes. **(15)**

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

- a) Liver Function Tests.
- b) Functions of intracellular organelles in brief.
- c) Glycolysis

SECTION-B

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

1. Enzyme that hydrolyze sucrose is
 - a) Invertase
 - b) Amylase
 - c) Pancreatic α -amylase
 - d) Lactase
2. One of the following is not true for TCA cycle
 - a) Takes place in cytoplasm
 - b) Amphibolic pathway
 - c) Related to gluconeogenesis
 - d) Common metabolic pathway
3. Uncontrolled diabetes mellitus may result in
 - a) Metabolic acidosis
 - b) Metabolic alkalosis
 - c) Respiratory acidosis
 - d) Respiratory alkalosis
4. One of the following prevents atherosclerosis
 - a) LDL
 - b) HDL
 - c) VLDL
 - d) IDL
5. BMR is decreased in
 - a) Cold climate
 - b) Fever
 - c) Stress
 - d) hypothyroidism

6. Conversion of Alanine to glucose is
 - a) Glycogenesis
 - b) Gluconeogenesis
 - c) Glycolysis
 - d) Glucuronic acid pathway

7. One of the following is an essential amino acid
 - a) Tyrosine
 - b) Aspartic acid
 - c) Glutamic acid
 - d) Lysine

8. One of the following does not pertain to collagen
 - a) Every third amino acid is glycine
 - b) Hydroxy lysine and hydroxy proline are present
 - c) Quarter –staggered triple helix
 - d) Half life is too short

9. Normal pH of blood is
 - a) 7.0
 - b) 7.4
 - c) 7.8
 - d) 7.6

10. The fetus gets immunity through
 - a) Ig G
 - b) Ig A
 - c) Ig M
 - d) IgD