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I Year B.P.T. Degree Examination — OCT-2019

Time: Three Hours Max. Marks: 80 Marks

BIO-CHEMISTRY (RS-3 & RS-4) Q.P. CODE: 2703

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- Enumerate any six functions of liver. Classify liver function tests with example and their utility.
- 2. Explain how acid base status is regulated by the kidney in the body.
- Explain the steps involved in 13 oxidation of palmitic acid. Add a note on energetics. 3.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

- Explain the steps of glycogenesis. 4.
- 5. Explain briefly the process of muscle contraction.
- Define hormones. Classify hormones with examples. 6.
- Explain how iron levels in the body is maintained and stored. Add a note on deficiency 7. manifestations.
- What are the active forms of vitamin A? What are its functions? 8.
- What are the difference between kwashiorka and Marasmus? 9.
- 10. How ammonia is detoxified in the body?
- What are the functions of cholesterol? 11.
- Explain Ketogenesis. 12.
- Define diabetes mellitus. Classify its different types. 13.

SHORT ANSWERS 10 x 2 = 20 Marks

- Rothera's test
- 15. What is lactose intolerance? What its features?
- What is phenyl Ketonuria? What is the enzyme defect in it? 16.
- Functions of mitochondria 17.
- Enumerate four key gluconeogenic enzymes, 18.
- Enumerate any two biologically important peptides. 19.
- What are essential amino acids? Give example. 20.
- 21. What is PUFA?
- What is the function of VLDL and LDL? 22.
- 23. Enumerate any two functions of Phospholipids.