

**First Year BPT Degree Supplementary Examinations, August 2017****(2010 scheme)****Biochemistry and Nutrition****Time : 3 hrs****Max marks : 100**

- Answer all questions
- Draw diagrams wherever necessary

Essays:**(2x10=20)**

1. Name the ketone bodies. How ketone bodies are formed and utilized in the body and add a note on diabetic ketoacidosis (1+6+3=10)
2. Explain the sources, biochemical functions and deficiency manifestations of vitamin D (1+5+4=10)

Short notes:**(10x5=50)**

3. Digestion of carbohydrates
4. Enzyme inhibition
5. Regulation of blood sugar
6. Glucose tolerance test
7. Absorption of iron
8. Compounds formed from glycine
9. Metabolism of chylomicron
10. Chromatography
11. Inhibitors of electron transport chain
12. Blood buffers

Answer briefly:**(10x3=30)**

13. Watson and Crick model of DNA
14. Riboflavin
15. Maple syrup urine disease
16. Mitochondria
17. Cytochrome p 450
18. Insulin resistance
19. Dietary fiber
20. Aspartic acid
21. Leucotriens
22. Anapleurotic role of TCA cycle