GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm – SEMESTER-III • EXAMINATION – SUMMER -2020

| | | | Date: 28-10-2020 | |
|----------------------------|----------------------------------|--|------------------|----------------|
| Time Instru 1. 2. | e: 2:3 ictions Atte Mal | | Total Marks: 80 | |
| Q.1 | (a) (b) (c) | Define Carbohydrate. Discuss classification and biological ro Carbohydrates. Write down biological significance of cholesterol. Write a detail note on structure of protein. | | 06 05 05 |
| Q.2 | (a) (b) (c) | Describe the hexose monophosphate shunt. Write about its si Write down β -Oxidation of saturated fatty acid. Write down catabolism of Tyrosine. Discuss its metabolic discusses its metabolic discusses its metabolic discusses. | | 06 05 05 |
| Q.3 | (a) (b) (c) | Write down biosynthesis of purine and pyrimidine nucleotide Write about the process of replication of DNA. Explain about hormonal regulation of blood glucose level in | | 06 05 05 |
| Q.4 | (a) (b) (c) | Write down biological significances of ATP and cyclic AMP What are lipids? Classify lipids with example. Write a note on Genetic Code. | | 06 05 05 |
| Q.5 | (a) (b) (c) | Define following terms: 1. Enthalpy 2. Entropy 3. Redox Potential Explain formation and utilization of ketone bodies. Write a note on Protein synthesis. | | 06 05 05 |
| Q. 6 | (a) (b) (c) | Write down electron transport chain (ETC) and its mechanism Write about structure of RNA. Discuss structure and biochemical functions Coenzymes | | 06 05 05 |
| Q.7 | (a) (b) (c) | Define enzymes. Discuss properties and classifications of enzymetries about urea cycle and its disorder. Discuss synthesis and significance of Dopamine. | - | 06 05 05 |
