

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – WINTER - 2021

Subject Code: 818803**Date: 19/02/2022****Subject Name: Medicinal Biochemistry****Time: 10:30 AM to 01:30 PM****Total Marks: 70****Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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| Q.1 | (a) Write in detail enzyme inhibition with suitable examples. | 06 |
| | (b) Explain in detail about factor affecting enzyme activity. | 04 |
| | (c) Draw a cell Diagram & label different cell Organelles. Write functions of Mitochondria & nucleus. | 04 |
| Q.2 | (a) Write in detail about TCA Cycle along with its energetic. | 06 |
| | (b) Explain role of hormone in maintenance of blood sugar level. | 04 |
| | (c) Give detail note on Jaundice. | 04 |
| Q.3 | (a) Explain metabolic pathway that convert glucose in to pyruvate. | 06 |
| | (b) Write note on respiratory chain. | 04 |
| | (c) Write detail note on oxidative phosphorylation. | 04 |
| Q.4 | (a) Explain lipid metabolism of cholesterol. | 06 |
| | (b) Explain β -oxidation of fatty acid. | 04 |
| | (c) Write catabolism of amino acids. | 04 |
| Q.5 | (a) Write in detail about protein synthesis. | 06 |
| | (b) Discuss genetic code. | 04 |
| | (c) Explain ELISA. Give significance of ELISA techniques. | 04 |
| Q.6 | (a) Write in detail about determination of lipid profile test. | 06 |
| | (b) Give test for serum bilirubin and urine bilirubin. | 04 |
| | (c) Compare & contrast between passive diffusion and facilitated diffusion with examples. | 04 |
| Q.7 | (a) Give kidney function test for NPN constituents. | 06 |
| | (b) Explain dry test for excretory functions. | 04 |
| | (c) Give an account on determination of sodium & calcium in body fluids. | 04 |
