

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VI • EXAMINATION – WINTER • 2015

Subject Code: 260003

Date: 01-01-2016

Subject Name: Pharmaceutical Chemistry-VII (Biochemistry)

Time: 02:30 pm - 05:30 pm

Total Marks: 80

Instructions:

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

- | | | |
|-------------|--|-----------|
| Q.1 | (a) Write a note on β - oxidation in detail. | 06 |
| | (b) Explain in detail biosynthesis of cholesterol. | 05 |
| | (c) Write down about bio-synthesis and utilization of ketone bodies. | 05 |
| Q.2 | (a) Describe about enzymes involved in biological oxidation. | 06 |
| | (b) Write a note on electron transport chain in detail. | 05 |
| | (c) Describe in detail transamination and deamination reactions for amino acid metabolism. | 05 |
| Q.3 | (a) Write down about biosynthesis of Porphyrin. | 06 |
| | (b) Write a detail account on urea cycle along with disorders associated with it. | 05 |
| | (c) Describe metabolism of any one sulphur containing amino acid. | 05 |
| Q.4 | (a) Explain about conversion of amino acids to specialized products. | 06 |
| | (b) Discuss the purine biosynthesis with its interconversion. | 05 |
| | (c) Write a short note on isolation and purification of nucleic acid. | 05 |
| Q.5 | (a) Write a note on damage and repair of DNA. | 06 |
| | (b) Explain in detail about DNA replication in eucaryotes. | 05 |
| | (c) Describe about polymerase chain reaction in detail. | 05 |
| Q. 6 | (a) What is Translation? Write down the different steps involved in it. | 06 |
| | (b) Describe about post transcriptional modifications. | 05 |
| | (c) Write a note on Gene expression in eucaryotes in detail. | 05 |
| Q.7 | (a) Enumerate the techniques used in biochemistry. Write down principle of centrifugation. | 06 |
| | (b) Give detail account on absorption and biochemical role of calcium. | 05 |
| | (c) Write a note on distribution of water and water balance in humans. | 05 |
