

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 6- EXAMINATION –WINTER - 2018

Subject Code: 260003

Date: 27/11/2018

Subject Name: Pharmaceutical Chemistry - VII (Biochemistry)

Time: 02:30 PM TO 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.**

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|-------------|---|-----------|
| Q.1 | (a) Write a note on purine biosynthesis. | 06 |
| | (b) Write a note on β -oxidation of fatty acids along with its energetics. | 05 |
| | (c) Write a note on regulation of gene expression. | 05 |
| Q.2 | (a) Give urea cycle. Add a note on metabolic disorders of urea cycle. | 06 |
| | (b) Write a note on polymerase chain reactions. | 05 |
| | (c) Write a note on electrophoresis techniques used in biochemistry. | 05 |
| Q.3 | (a) Write a note on biosynthesis and utilization of ketone bodies. | 06 |
| | (b) Write a note on biosynthesis of RNA. | 05 |
| | (c) Give the importance of water and water metabolism in body. | 05 |
| Q.4 | (a) Write a note on catabolism of amino acids. | 06 |
| | (b) Write a note on respiratory chain. | 05 |
| | (c) Write a note on coenzymes involved in oxidation reduction reactions. | 05 |
| Q.5 | (a) Give the importance of iron and its metabolism in body. | 06 |
| | (b) Write a note on DNA repair mechanism. | 05 |
| | (c) Write a note on isolation and purification of nucleic acids. | 05 |
| Q. 6 | (a) Write a note on Sulphur containing amino acids. Also comment on disorders associated with them. | 06 |
| | (b) Write a note on formation and importance of bile pigments. | 05 |
| | (c) Write a note on metabolism of cholesterol. | 05 |
| Q.7 | (a) Write a note on oxidative phosphorylation. Also comment on its inhibitors. | 06 |
| | (b) Write a note on the specialized products formed from amino acids. | 05 |
| | (c) Enlist the enzymes involved in biosynthesis of porphyrin. Also add a note on porphyrias. | 05 |
