

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – SUMMER - 2018

Subject Code:818803**Date: 23/05/2018****Subject Name: Medicinal Biochemistry****Time:10:30AM TO 01:30PM****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) | Discuss at length the process of beta oxidation of fatty acids with energetics | 06 |
| | (b) | Discuss about defective metabolism of lipids | 04 |
| | (c) | Explain ketone bodies formation and their utilization | 04 |
| Q.2 | (a) | Classify proteins according to their biological functions. Write about kwashiorkor and marasmus. | 06 |
| | (b) | Discuss urea cycle | 04 |
| | (c) | Discuss about abnormal metabolism of proteins | 04 |
| Q.3 | (a) | Explain citric acid cycle with its energetic | 06 |
| | (b) | Define coenzymes. Explain their biochemical role and deficiency diseases | 04 |
| | (c) | Discuss specificity of enzymes | 04 |
| Q.4 | (a) | Explain (1) cori's cycle (2) Glycogen storage disorders | 06 |
| | (b) | Describe the components of electron transfer chain and discuss the oxidation of NADH | 04 |
| | (c) | Discuss about uncouplers as inhibitors of oxidative phosphorylation | 04 |
| Q.5 | (a) | Describe the hexose monophosphate shunt and add a note on its significance | 06 |
| | (b) | Write a note on distribution of water and water balance in humans | 04 |
| | (c) | Write in brief about the different laboratory investigations employed to assess liver functions | 04 |
| Q. 6 | (a) | Write note on energy rich compounds | 06 |
| | (b) | Write briefly on the renal function tests | 04 |
| | (c) | Discuss about (1) role of clinical chemistry laboratory (2) composition and functions of lipoproteins | 04 |
| Q.7 | (a) | Write note on damage and repair of DNA | 06 |
| | (b) | Discuss about Gene expression in eukaryotes | 04 |
| | (c) | Write note on RIA | 04 |
