

[LB 1501]

Sub. Code: 1501

FIRST YEAR B.N.Y.S. DEGREE EXAM – AUGUST 2012

Paper – I BIOCHEMISTRY

Q.P. Code: 821501

Time: Three Hours

Maximum: 100 marks

(180 Min) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.)(Max.)(Max.)

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|---|----|----|----|
| 1. Explain Vitamin – A Classification, Chemistry, Properties, Absorption, deficiency and Rhodopsin Cycle. | 16 | 25 | 15 |
| 2. Explain Classification of Carbohydrates and stereo isomerism. | 16 | 25 | 15 |

II. Write notes on:

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|----------------------------------|---|---|---|
| 1. Write Kidney Function Test. | 3 | 8 | 5 |
| 2. Explain Steroids. | 3 | 8 | 5 |
| 3. TCA Cycle. | 3 | 8 | 5 |
| 4. Regulation of Blood Sugar. | 3 | 8 | 5 |
| 5. Explain BMR. | 3 | 8 | 5 |
| 6. Krebs-Henseleit Cycle. | 3 | 8 | 5 |
| 7. Explain Calcium. | 3 | 8 | 5 |
| 8. Explain DNA and RNA. | 3 | 8 | 5 |
| 9. Hemoglobin. | 3 | 8 | 5 |
| 10. Purine and Pyrimidine bases. | 3 | 8 | 5 |

II. Short Answers:

- | | | | |
|---------------------------------------|---|---|---|
| 1. Saturated Fatty acids. | 1 | 5 | 2 |
| 2. Protein Energy malnutrition (PEM). | 1 | 5 | 2 |
| 3. Jaundice. | 1 | 5 | 2 |
| 4. Vitamin – B12. | 1 | 5 | 2 |
| 5. Structure of Insulin. | 1 | 5 | 2 |
| 6. Chromatography. | 1 | 5 | 2 |
| 7. Water Metabolism. | 1 | 5 | 2 |
| 8. PH. | 1 | 5 | 2 |
| 9. Scurvy. | 1 | 5 | 2 |
| 10. Trioses. | 1 | 5 | 2 |
