



Roll No. ....  
Signature of Invigilator .....

Paper Code  
BNYS-T 101

पतंजलि विश्वविद्यालय  
**University of Patanjali**

Examination May-June-2023

Bachelor of Naturopathy and Yogic Science, 1<sup>st</sup> Year, Part-B  
**Biochemistry**

Time: 3 Hours

Max. Marks: 80

**Note:** This paper is of eighty (80) marks divided into two (02) sections A, and B. Attempt the questions of each sections according to the detailed instructions given therein.

**Section - A**

**(Long Answer Type Questions)**

**Note:** Section 'A' contains seven (07) long-answer-type questions of ten (10) marks each. Attempt any **five** questions. **(5×10=50)**

1. What are compound lipids? Discuss its types and functions in detail.
2. Give the role of minerals in Biological systems.
3. Give a detailed account on classification of proteins.
4. Write short notes on the following : (a) co-enzymes (b) co-factors (c) Iso-enzymes (d) Lock and key hypothesis.
5. What do you understand by Polysaccharides?
6. Discuss Krebs's Cycle in detail.
7. Elaborate the following:  
(a) Basal metabolic rate (b) Protein energy malnutrition (c) Lipotropic factors (d) Fatty liver.

**Section - B**

**(Short Answer Type Questions)**

**Note:** Section 'B' contains Eight (08) short-answer-type questions of five (05) marks each. Attempt any **six** (06) questions. **(6×5=30)**

8. Give an account on the disease caused by vitamin deficiency.
9. What do you understand by Hypervitaminosis?
10. What is Pyruvate oxidation? Give its significance.
11. Give the Bio-synthesis of Lecithin.
12. Cite a few properties of saturated and Unsaturated fatty acids.
13. How will you differentiate between Hemoglobin and Myoglobin?
14. Give classification and properties of Monosaccharides.
15. Give an outline and breakdown of Purine and Pyrimidine.