

**B.Sc., PHYSICIAN ASSISTANT**

**FIRST YEAR - QUESTION BANK**

**SUBJECT CODE & NAME – 1601 - BIOCHEMISTRY**

**UNIT NO: 1**

**TOPIC – CARBOHYDRATES AND PROTEINS**

**I. Elaborate On: 10 Marks**

**REFERENCE – THE TAMILNADU DR. M.G.R MEDICAL UNIVERSITY QUESTION PAPERS**

| S.NO | QUESTIONS                                                                                             | REFERENCE (EXAM MONTH AND YEAR) | BLOOMS TAXONOMY |
|------|-------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|
| 1.   | Structure of protein and urea cycle.                                                                  | February 2013                   | Understand      |
| 2.   | Describe in detail about Glycolysis, its energetic and regulation.                                    | February 2014                   | Analyze         |
| 3.   | Classify proteins, based on their structure and functions.                                            | February 2015                   | Understand      |
| 4.   | Define Amino acids and classify Amino acids in various ways with suitable examples and its functions. | August 2018                     | Understand      |
| 5.   | Describe in detail about Glycolysis, its energetic and regulation.                                    | February 2019                   | Analyze         |
| 6.   | Describe the classification of Amino-acids and its functions with suitable example.                   | April 2023                      | Understand      |

**II. Write Notes On: 5 Marks**

**REFERENCE – THE TAMILNADU DR. M.G.R MEDICAL UNIVERSITY QUESTION PAPERS**

| S.NO | QUESTIONS                                | REFERENCE (EXAM MONTH AND YEAR)           | BLOOMS TAXONOMY |
|------|------------------------------------------|-------------------------------------------|-----------------|
| 1.   | Write about protein energy malnutrition. | February 2015                             | Analyze         |
| 2.   | Diabetes mellitus.                       | February 2016                             | Analyze         |
| 3.   | Properties and structure of glucose.     | February 2017                             | Understand      |
| 4.   | Functions of Protein.                    | February 2017                             | Understand      |
| 5.   | Functional classification of Proteins.   | August 2017                               | Understand      |
| 6.   | Plasma proteins and its functions        | February 2018, April 2024                 | Understand      |
| 7.   | Polysaccharides.                         | August 2015 & 2019                        | Remember        |
| 8.   | Urea cycle.                              | August 2012, 2019, March 2021, April 2022 | Understand      |
| 9.   | Classification of Protein.               | April 2023                                | Remember        |

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**III. Write Short Notes On: 3 Marks**

**REFERENCE – THE TAMILNADU DR. M.G.R MEDICAL UNIVERSITY QUESTION PAPERS**

| S.NO | QUESTIONS                                                 | REFERENCE<br>(EXAM MONTH<br>AND YEAR) | BLOOMS<br>TAXONOMY |
|------|-----------------------------------------------------------|---------------------------------------|--------------------|
| 1.   | Aminoacids.                                               | August 2011                           | Remember           |
| 2.   | Anaerobic respiration.                                    | August 2011                           | Understand         |
| 3.   | Starch and glycogen.                                      | February 2012                         | Remember           |
| 4.   | Hormonal regulation of blood glucose.                     | August 2012                           | Understand         |
| 5.   | Different types of peptide bonds.                         | August 2013                           | Understand         |
| 6.   | Muco polysaccharides.                                     | February 2014                         | Remember           |
| 7.   | Name the hormones which regulates glycogen metabolism.    | February 2015                         | Remember           |
| 8.   | What is anaerobic respiration?                            | February 2015                         | Understand         |
| 9.   | Reducing sugars.                                          | February 2016                         | Remember           |
| 10.  | Functions of Carbohydrates.                               | August 2017                           | Understand         |
| 11.  | Glucose Tolerance Test.                                   | August 2017                           | Apply              |
| 12.  | Diabetes mellitus.                                        | February 2019                         | Understand         |
| 13.  | Peptide bond.                                             | February 2019                         | Remember           |
| 14.  | Name the hormones which regulates glycogen metabolism?    | August 2019                           | Remember           |
| 15.  | Aromatic acids.                                           | August 2019                           | Remember           |
| 16.  | Reducing sugars.                                          | February 2020                         | Remember           |
| 17.  | Simple proteins.                                          | February 2020                         | Remember           |
| 18.  | Glucose Tolerance Test.                                   | March 2021                            | Apply              |
| 19.  | Name the hormones which regulate the Glycogen Metabolism. | April 2023                            | Remember           |
| 20.  | Name the Polysaccharides.                                 | April 2023                            | Remember           |
| 21.  | Urea cycle.                                               | November 2023                         | Understand         |