

B.Sc., CARDIO PULMONARY AND PERFUSION CARE TECHNOLOGY

FIRST YEAR - QUESTION BANK

SUBJECT CODE & NAME – 1402 - 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	QUESTION	REFERENCE (EXAM MONTH AND YEAR)	BLOOM'S TAXONOMY
1.	Elaborate the classification of proteins.	August 2011	Understand
2.	What is meant by Proteins? How are they classified? Mention its functions.	August 2013, 2015, 2016 February 2020	Understand
3.	Explain Glycolysis pathway. Mention its net gain of ATPs in anaerobic condition.	February 2014, 2015	Understand
4.	Give an account on Glycolysis.	August 2014, 2015, 2018	Understand
5.	Explain in detail metabolism of glycogen.	February 2016	Understand
6.	Elaborate on diabetes mellitus.	February 2017	Understand
7.	Define glycolysis. Elaborate the pathway on aerobic phase of glycolysis.	April 2022	Understand
8.	Define Carbohydrates. Elaborate on classification of carbohydrates in detail with example.	November 2023	Understand
9.	Classify Proteins based on function and nutritional importance.	November 2023	Analyze

II. Write Notes On: 5 Marks

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

S.NO	QUESTION	REFERENCE (EXAM MONTH AND YEAR)	BLOOM'S TAXONOMY
1.	Glycogenolysis.	August 2011, 2015, 2019	Remember
2.	Write any five important functions of Structural proteins with examples.	August 2012	Understand
3.	Write a short notes on Glycogen?	August 2013, 2016	Understand
4.	Mention the biological importance of proteins.	February 2014	Understand
5.	Explain about Glycogenesis.	August 2014	Understand
6.	Classify proteins.	February 2015	Analyze
7.	HMP shunt.	February 2016	Understand
8.	Denaturation of proteins.	February 2016	Understand

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9.	Functions of proteins.	February 2017	Understand
10.	Glycogenolysis.	March 2021	Remember
11.	Factors maintaining blood glucose level.	November 2022	Analyze
12.	Classification and functions of proteins.	April 2023	Analyze

III. Write Short Answers On: 3 Marks

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

S.NO	QUESTION	REFERENCE (EXAM MONTH AND YEAR)	BLOOM'S TAXONOMY
1.	Mention any 3 differences between glucose and fructose.	August 2013	Analyze
2.	Functions of protein.	February 2015	Remember
3.	Glycogenolysis. What is its usefulness?	February 2015	Understand
4.	Irreversible reactions of Glycolysis.	August 2015	Remember
5.	Gluconeogenesis.	February 2016	Remember
6.	(a) Zwitter ion (b) Isoelectric pH.	February 2016, 2017	Remember
7.	What is stereoisomerism?	August 2016	Remember
8.	Dietary fibers and its importance.	April 2022	Understand
9.	What are disaccharides? Give example.	April 2022	Remember
10.	What are essential amino acids?	November 2022	Remember