

B.Sc., CARDIO PULMONARY AND PERFUSION CARE TECHNOLOGY

FIRST YEAR - QUESTION BANK

SUBJECT CODE & NAME – 1402 - BIOCHEMISTRY

UNIT NO: 5

TOPIC – ACIDS AND BASES

I. Elaborate On: 10 Marks

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

S.No	Questions	Reference (Exam Month and Year)	Bloom's Taxonomy
1.	Define respiratory acidosis. Explain the investigation related to the biochemical changes that take place in this condition.	August 2019	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)	Bloom's Taxonomy
1.	Buffers.	August 2011, 2017, February 2017	Understand
2.	How will you prepare 100 ml of 1M & 1N Sodium hydroxide. Is there any difference?	August 2012	Apply
3.	Write the Significance of Henderson Equation.	August 2012, 2016, February 2020	Understand
4.	Write about i) Buffers ii) Indicators?	February 2014	Understand
5.	What is an acid and a base? Metabolic acidosis and alkalosis.	February 2015, August 2018	Understand
6.	What is normal blood pH? Explain the causes and compensation of metabolic acidosis.	April 2022	Understand

III. Write Short Answers On: 3 Marks

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

S.No	Questions	Reference (Exam Month and Year)	Bloom's Taxonomy
1.	Molality.	August 2011	Remember
2.	Name any three physiological buffers.	August 2012	Remember
3.	Define Normality.	August 2013, 2019, April 2022	Remember
4.	Write any 3 important functions of Sodium and its deficiency?	February 2014	Understand

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5.	What is Acidosis?	August 2014 2019	Remember
6.	Hypokalemia.	August 2015, 2016	Remember
7.	Hypernatremia.	February 2016	Remember
8.	What is meant by Zwitterion?	February 2017	Remember
9.	Buffers.	August 2017, April 2022	Remember
10	Molality and molarity.	August 2017, April 2023	Analyze
11	Define pH	August 2018, April 2023	Remember
12	Define pH and write Hendersen Hesselbach equation.	November 2022	Remember
13	Normal value in blood (Reference range) i) Sodium ii) Potassium iii) Chloride.	April 2023	Remember