

B.Sc., CARDIO PULMONARY AND PERFUSION CARE TECHNOLOGY

FIRST YEAR - QUESTION BANK

SUBJECT CODE & NAME – 1402 - BIOCHEMISTRY

UNIT NO: 4

TOPIC – VITAMINS AND MINERALS

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.	Write about the sources, functions and disorders of Vitamin A and D.	August 2012	Understand
2.	Write about Fat Soluble Vitamins? (Structure, Sources, Requirement, Functions and Deficiency)	February 2014	Understand
3.	Explain the classification, sources and functions of vitamins.	August 2016, August 2017	Understand
4.	Explain in detail about the sources, requirements, functions and deficiency states of fat soluble Vitamins.	August 2019	Understand
5.	Define vitamins. Classify vitamins and elaborate on vitamin D.	April 2022	Understand

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.	Vitamin D.	August 2011	Understand
2.	Write a short notes on BMR?	August 2013	Understand
3.	Write a short note on Trace elements?	February 2014	Understand
4.	Caloric value of food stuffs	August 2014, February 2017	Remember
5.	Write notes on Specific Dynamic Action	August 2014	Understand
6.	How calcium level is maintained in blood?	February 2015	Understand
7.	Kwashiorkor.	February 2016, August 2018	Understand
8.	Specific dynamic action.	August 2016	Understand
9.	Water soluble vitamins.	August 2015, 2018	Understand
10.	Marasmus.	August 2019	Understand
11.	Metabolism of vitamin D.	February 2020, March 2021	Understand
12.	Protein energy malnutrition.(Marasmus & Kwashiorkor)	March 2021	Understand
13.	Balanced diet.	November 2022	Understand
14.	Sources and functions of Calcium.	April 2023	Understand

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15	Write the sources, functions and deficiency manifestations of Vitamin A.	April 2023	Understand
16	Vitamin K – sources, functions and deficiency manifestations.	November 2023	Understand

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.	Kwashiorkor	August 2011, 2013, 2014	Remember
2.	What is a Balanced Diet?	August 2011, 2014	Remember
3.	Differentiate between Rickets and Osteomalacia. (Vitamin D deficiency)	August 2012	Analyze
4.	What is Vitamin B12? What is its significance.	August 2012, February 2017	Understand
5.	What is meant by Respiratory Quotient?	August 2013, 2017	Remember
6.	Write any 3 important functions of Sodium and its deficiency?	February 2014	Understand
7.	Thiamine. (B-complex vitamin)	February 2014	Understand
8.	Basal Metabolic Rate.	February 2015, 2016	Remember
9.	Three different B complex vitamins and their functions.	February 2015	Understand
10	Pellagra. (B-complex vitamin deficiency)	August 2015, 2016, March 2021	Remember
11	Hypokalemia.	August 2015, 2016	Remember
12	Marasmus	August 2017	Remember
13	Trace elements	August 2017	Remember
14	Deficiency state of Vitamin B12.	August 2019	Remember
15	Deficiency state of vitamin D.	February 2020	Remember
16	Scurvy. (Vitamin C - water soluble)	February 2020	Remember
17	Deficiency state of Vitamin C.	March 2021	Remember
18	Dietary fibers and its importance.	April 2022	Understand
19	Dietary sources and functions of calcium.	April 2022	Understand
20	Beriberi. (B-complex vitamin deficiency)	November 2022, 2023	Remember
21	Mention the calorific value of foods.	April 2023	Remember