

SUBJECT: 1401 - PHYSIOLOGY

UNIT IV - THE EXCRETORY SYSTEM - QUESTION BANK

REFERENCE - THE TAMILNADU DR. M.G.R MEDICAL UNIVERSITY QUESTION PAPER

I. ELABORATE ON

10 MARKS

Sr. No	Question	Reference of all months and all years	Bloom's Taxonomy
1	Explain in detail the mechanism of urine formation, including factors affecting glomerular filtration rate and tubular processes. Add a note on normal urinary output.	August 2016, February 2020, April 2022, March 2021 (related to urine formation mechanism), February 2017 (factors affecting GFR)	Understand
2	Describe the physiology of micturition, including its neural control and mechanism. Add a note on disorders affecting micturition.	August 2011, August 2012, August 2017, August 2018, April 2023, February 2016 (nerve supply of urinary bladder)	Analyze
3	Discuss renal function tests in detail and their role in diagnosing renal disorders such as chronic renal failure. Add a note on factors influencing test results.	August 2013, August 2015, February 2013, February 2020, February 2016 (chronic renal failure)	Apply

II. WRITE NOTES ON

5 MARKS

Sr. No	Question	Reference of all months and all years	Bloom's Taxonomy
1	Explain the physiology of micturition.	August 2011, August 2018, April 2023	Understand
2	Define micturition and add a note on its mechanism.	August 2012, August 2017	Remember
3	Write notes on renal function tests.	February 2013, August 2013, August 2015, February 2020	Remember
4	What is chronic renal failure? Add a note on its physiological causes.	February 2016	Understand
5	Explain factors affecting glomerular filtration rate and its role in urine formation.	February 2017, August 2017, November 2023 (GFR definition and value)	Understand
6	Write notes on the nerve supply involved in micturition.	February 2016, August 2019	Understand

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Sr. No	Question	Reference of all months and all years	Bloom's Taxonomy
7	Explain the mechanism of urine formation and its relation to normal urinary output.	March 2021, February 2016 (urine composition), August 2016, February 2020, April 2022	Understand
8	Describe juxtaglomerular apparatus and its role in renal function and disorders.	April 2024, February 2017 (related to GFR factors)	Analyze

III. WRITE SHORT NOTES ON

3 MARKS

Sr. No	Question	Reference of all months and all years	Bloom's Taxonomy
1	Define micturition.	August 2012	Remember
2	What is renal function test?	February 2013	Remember
3	Mention the normal composition of urine (related to normal urinary output).	February 2016	Remember
4	Define glomerular filtration rate and mention its normal value.	August 2017	Remember
5	Define glomerular filtration rate with its normal range.	November 2023	Remember
6	Mention the layers involved in micturition process (urinary bladder).	August 2015	Remember
7	What is the normal urinary output? Add a note on its composition.	February 2016 (urine composition)	Understand
8	Name the renal function tests used for assessing excretory system disorders.	February 2013, August 2013, August 2015, February 2020	Remember
9	What are the physiological factors affecting normal urinary output?	February 2016 (urine composition), February 2017 (GFR factors)	Understand
10	Define chronic renal failure as a renal disorder.	February 2016	Remember