

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)

B. Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY

1401 – ANATOMY

I YEAR

## UNIT IV – ANATOMY OF URINARY TRACT SYSTEMS .

I. ELABORATE ON

10 MARKS

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

| S.no | Questions                                                                                                                                                                                         | Reference   | Bloom's Taxonomy |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|
| 1    | <b>Describe in detail the anatomy of the Kidney, including its coverings, external features, and internal structure.</b> Draw a neat labeled diagram of a coronal section of the kidney.          | August 2024 | Apply            |
| 2    | <b>Discuss the course, relations, blood supply, and nerve supply of the Ureter.</b> Correlate the three sites of normal constriction with the clinical presentation of renal colic.               | August 2024 | Analyze          |
| 3    | <b>Explain the gross anatomy of the Urinary Bladder.</b> Detail its location, peritoneal coverings, and relations in both male and female pelves.                                                 | August 2024 | Analyze          |
| 4    | <b>Describe the entire course, parts, and blood supply of the Male Urethra.</b> Evaluate how the anatomical differences between the male and female urethra influence catheterization procedures. | August 2024 | Evaluate         |
| 5    | <b>Detail the layers of fascia and fat surrounding the Kidney.</b> Explain the mechanism of fixation of the kidney and discuss the significance of <b>Renal Ptosis</b> (floating kidney).         | August 2024 | Analysis         |
| 6    | <b>Describe the development of the Kidney.</b> Discuss the common congenital anomalies of the                                                                                                     | August 2024 | Understanding    |

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| S.no | Questions                                                                                                                                                                                                    | Reference   | Bloom's Taxonomy |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|
|      | kidney and ureter, such as ectopic kidney and double ureter, and their clinical relevance.                                                                                                                   |             |                  |
| 7    | <b>Discuss the arterial supply and venous drainage of the Kidney and Urinary Bladder.</b> Explain the concept of <b>Renal Segments</b> and its importance in surgical nephrectomy.                           | August 2024 | Analysis         |
| 8    | <b>Explain the complete process of Micturition (Urination).</b> Describe the central and peripheral nervous control mechanisms involved in this reflex.                                                      | August 2024 | Create           |
| 9    | <b>Describe the location and relations of the two kidneys (right and left).</b> Compare and contrast the abdominal structures related to the anterior surfaces of the right and left kidneys.                | August 2024 | Analyze          |
| 10   | <b>Describe the anatomy of the female urinary tract (Kidney, Ureter, Bladder, Urethra).</b> Discuss the proximity of the bladder and ureter to the female reproductive organs and its surgical significance. | August 2024 | Apply            |

**II.WRITE NOTES ON****5 MARKS****REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER**

| S.no | Questions                                 | Reference   | Bloom's Taxonomy |
|------|-------------------------------------------|-------------|------------------|
| 1    | Structure of the <b>Renal Corpuscle</b> . | August 2024 | Understanding    |

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| S.no | Questions                                                               | Reference   | Bloom's Taxonomy |
|------|-------------------------------------------------------------------------|-------------|------------------|
| 2    | <b>Relations of the Urinary Bladder in the Male.</b>                    | August 2024 | Remember         |
| 3    | Draw and label the <b>Arterial Supply of the Kidney.</b>                | August 2024 | Apply            |
| 4    | Write a note on the <b>Trigone of the Urinary Bladder.</b>              | August 2024 | Understanding    |
| 5    | <b>Microscopic structure of the Ureter.</b>                             | August 2024 | Understanding    |
| 6    | Explain the concept of <b>Referred Pain</b> from the kidney and ureter. | August 2024 | Apply            |
| 7    | <b>Fascial and fat coverings of the Kidney.</b>                         | August 2024 | Remember         |
| 8    | <b>Perineum</b> and its relation to the lower urinary tract.            | August 2024 | Understanding    |
| 9    | <b>Venous Drainage of the Kidney.</b>                                   | August 2024 | Remember         |
| 10   | <b>Membranous and Spongy parts of the Male Urethra.</b>                 | August 2024 | Analyze          |

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**III.WRITE SHORT NOTES ON**

**3 MARKS**

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

| S.no | Questions                                                           | Reference   | Bloom's Taxonomy |
|------|---------------------------------------------------------------------|-------------|------------------|
| 1    | Name the <b>three normal constrictions of the Ureter.</b>           | August 2024 | Remember         |
| 2    | Define <b>Renal Hilum</b> and <b>Renal Sinus.</b>                   | August 2024 | Remember         |
| 3    | Name the <b>muscle of the urinary bladder</b> and its nerve supply. | August 2024 | Remember         |
| 4    | What are the <b>Renal Columns (of Bertin)?</b>                      | August 2024 | Remember         |
| 5    | What is the significance of the <b>Internal Urethral Orifice?</b>   | August 2024 | Understanding    |
| 6    | Name two <b>anterior relations of the right kidney.</b>             | August 2024 | Remember         |
| 7    | Define <b>Hydronephrosis.</b>                                       | August 2024 | Understanding    |
| 8    | List the <b>three parts of the male urethra.</b>                    | August 2024 | Remember         |
| 9    | What is the surgical importance of the <b>Rectovesical Pouch?</b>   | August 2024 | Apply            |
| 10   | Name the major <b>artery supplying the Urinary Bladder.</b>         | August 2024 | Remember         |

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| S.no | Questions                                                                      | Reference   | Bloom's Taxonomy |
|------|--------------------------------------------------------------------------------|-------------|------------------|
| 11   | What are <b>Renal Papillae</b> ?                                               | August 2024 | Remember         |
| 12   | Mention two structures related to the <b>posterior surface of the kidney</b> . | August 2024 | Remember         |
| 13   | Define <b>Suprarenal Gland</b> .                                               | August 2024 | Remember         |
| 14   | Name the specialized type of <b>epithelium lining the urinary bladder</b> .    | August 2024 | Remember         |
| 15   | What is the <b>Vesicouterine Pouch</b> ?                                       | August 2024 | Understanding    |