Paper II: Technical subject

1. Embryology and surgical anatomy of retroperitoneum
   1.1 Kidney
   1.2 Uterus
   1.3 Adrenal gland
   1.4 Other retroperitoneal structures

2. Embryology and surgical anatomy of lower urinary tract with congenital anomalies

3. Development of testes and congenital defects


5. Symptoms and signs of disorders of genito urinary tract

6. Urological laboratory investigations

7. Radiological investigation of urinary tract and retroperitoneal structures

8. Renal physiology and pathophysiology of
   8.1 Renal vascular hypertension
   8.2 Ischemic nephropathy
   8.3 Obstructive uropathy
   8.4 Acute and chronic renal failures

9. Basic principles of immunology in urology and renal transplantation

10. Pathophysiology and management of urinary tract obstruction: obstructive uropathy including benign prostatic hyperplasia and prostatic cancer

11. Genito urinary trauma and the basic principles and management
   11.1 Renal trauma
   11.2 Ureteric trauma
   11.3 Bladder trauma
   11.4 Urethral trauma
   11.5 Penile trauma
   11.6 Scrotal trauma

12. Infection and Inflammation of urinary tract

13. Voiding functions and dysfunction

14. Physiology and pharmacology in urinary bladder and urethra

15. Neuourological evaluation

16. Neuromuscular dysfunction of lower urinary tract
17. Reproductive function and dysfunction
18. Concept of endourology
19. Concept of common urological problem and their approaches in:
   19.1 Haematuria
   19.2 Obstructive uropathy
   19.3 Retention of urine
20. Urolithiasis and modern trend in their management.
   21.1 Renal cell carcinoma (RCC)
   21.2 Transitional cell carcinoma (TCC)
   21.3 Cancer Penis
   21.4 Testicular tumors
   21.5 Adrenal tumors
22. Concept of urinary diversions
23. Radiotherapy and chemotherapy in urology
24. Disorders of testes, scrotum, spermatic cord and external genitalia
25. Male Infertility and Erectile dysfunction

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