लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, सर्जरी समूह, युरोसर्जरी उपसमूह, एघारौं (११) तहको खुला र आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

1. Anatomy and embryology

- 1.1 Surgical anatomy and embryology of the Retroperitoneum, Adrenal glands, Kidneys, Ureters
- 1.2 Applied anatomy and embryology of lower urinary tract and male genitalia
- 1.3 Applied anatomy of bony pelvis, anterior abdominal wall soft tissue of the pelvis, pelvic circulation, pelvic innervations, pelvic viscera, perineum
- 2. Signs and Symptoms of the genitourinary tract disorders
- 3. Urologic laboratory examinations of blood, serum and urine
- 4. Radiology of the urinary tract and retroperitoneal structures
 - 4.1 Ultra sonogram
 - 4.2 KUB & IVU
 - 4.3 CT Scan
 - 4.4 Magnetic resonance imaging and Retogende pyclogam (RPG)
 - 4.5 Renal isotope study (DTPA, DMSA, MAG-3)
 - 4.6 Micturating cystogram (MCU), Antegrade /Retrograde urethrogeam

5. Paediatric urology

- 5.1 Embryology of genitourinary system, testis and its related anomalies
- 5.2 Phimosis / Paraphimosis
- 5.3 Reflux Uropathy
- 5.4 Bladder extorphy
- 5.5 Hypospadias and epispadias
- 5.6 Ectopic Ureter / Kidney
- 5.7 Primary megaureter
- 5.8 Congenital polycyclic kidney disease
- 5.9 Duplex ureter and its consequences
- 5.10 Intersexuality
- 5.11 Congenital diverticulum of urinary bladder
- 5.12 Congenital PUJ obstruction

6. Renal pathophysiology and renal transplant

- 6.1 Physiology and pathology of the renal pelvis and ureter
- 6.2 Pathophysiology and management of the urinary tract obstruction
- 6.3 Basic principles of immunology and rental transplantation
- 6.4 Renovascular hypertension, ischaemic nephropathy and obstructive uropathy
- 6.5 Acute and chronic renal failure
- 6.6 Infection and inflammations of the genitourinary tract

7. Voiding function and dysfunction of lower urinary tract

- 7.1 Pathophysiology of the bladder and urethra
- 7.2 Neurourologic evaluation and urodynatic study
- 7.3 Neuromuscular dysfunction of the lower urinary tract and its management

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8. Bladder outlet obstruction, its pathophysiology and management

- 8.1 Prostate
- 8.2 Urethra
- 8.3 Prepuce

9. Genito urinary tract trauma

- 9.1 Kidney injuries
- 9.2 Ureter injuries
- 9.3 Bladder Injury (intra / extra peritoneal)
- 9.4 Urethral injuries (anterior / posterior) and strictures
- 9.5 Penile injuries and factures
- 9.6 Scrotal and testicle injuries

10. Urinary stones

- 10.1 Pathophysiology of stone formation
- 10.2 Investigations of urinary stones
- 10.3 Management of urinary stones including ESWL

11. Endourology

- 11.1 Optical procedures: TURN, OID, PCNL
- 11.2 Energy used in endourology (Electricity, Ballistic and LASER)
- 11.3 Retrograde intrarenal surgery (RIRS)

12. Neoplasm of the genitourinary tract

- 12.1 Nephto-blastoma (Wilm's Tumor)
- 12.2 Renal cell carcinoma
- 12.3 Transitional cell carcinoma and other bladder tumors
- 12.4 Testicular carcinoma
- 12.5 Carcinoma of penis
- 12.6 Tumor of the adrenal glad
- 13. Male reproductive function and male infertility
- 14. Abnormality of sexual determination and differentiation
- 15. Sexual function and dysfunction
- 16. Disorders of the testes, scrotum, spermatic cord and external genitalia

17. Operative surgery

- 17.1 Renal surgery
 - 17.1.1 Radical / Simple nephrectomy/ Donor nephrectomy
 - 17.1.2 Nephroureterectomy
 - 17.1.3 Nephro / pyelolithotomy
 - 17.1.4 Pyeloplasty
- 17.2 Ureter Surgery
 - 17.2.1 Ureterolitotomy
 - 17.2.2 Ureterorenoscopy (URS)
 - 17.2.3 Ureterocystoneostomy (UCN)

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- 17.3 Bladder surgery
 - 17.3.1 Cystolithotomy
 - 17.3.2 Cystectomy (partial /single /total/ radical)
 - 17.3.3 Urinary diversion (incontinent / continent)
- 17.4 Prostate surgery
 - 17.4.1 Retropubic / Transvesicle prostatectomy
 - 17.4.2 Redical prostatectomy and orthotopic neobladder
 - 17.4.3 Prostate biopsy
 - 17.4.4 Laser prostectomy
- 17.5 Urethral Surgery
 - 17.5.1 Urethroplasty
 - 17.5.2 Penile reconstructions
- 17.6 Laparoscopic surgery
- 18. Radiotherapy and chemotherapy of urological malignancy
