

APRIL - 2001

[KD 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch IV — Genito Urinary Surgery

(Revised Regulations)

**Paper IV — RECENT ADVANCES IN GENITO
URINARY SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the prognostic markers in cancer of urinary bladder. (25)
2. Discuss the basic principles and clinical applications of positron emission tomography in urological Malignancies. (25)
3. Short notes on : (5 × 10 = 50)
 - (a) Mycophenolate mofetil
 - (b) Reverse transcriptase polymerase chain reaction
 - (c) Nilutamide
 - (d) Patient controlled analgesia
 - (e) Intra operative sonography of the kidneys.

NOVEMBER - 2001

[KE 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch IV — Genito Urinary Surgery

**Paper IV — RECENT ADVANCES IN GENITO
URINARY SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the pathology, aetiology, clinical features and treatment of retroperitoneal fibrosis. (25)
 2. Discuss the clinical implications of the ratio of free to total PSA level. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Atypical mycobacteria
 - (b) Ovarian vein syndrome
 - (c) Nephrogenic adenoma
 - (d) Calyceal diverticulum
 - (e) Renal Hypoplasia.
-

MARCH - 2002

[KG 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Genito-Urinary Surgery

**Paper IV — RECENT ADVANCES IN GENITO-
URINARY SURGERY**

Time : Three hours

Maximum : 100 marks

Attempt ALL questions.

1. Discuss the management of Metastatic Renal Cell Carcinoma. (25)
2. Discuss the role of transrectal ultrasonography in the evaluation of infertile male. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Total Alloplastic replacement of urinary bladder.
 - (b) Acute focal bacterial nephritis.
 - (c) Disseminated Intravascular Coagulopathy.
 - (d) Current status of flow cytometry.
 - (e) Diagnosis of Extra-adrenal pheochromocytoma.

APRIL - 2004

{KK 047}

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Genito-Urinary Surgery

**Paper IV — RECENT ADVANCES IN GENITO –
URINARY SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

A. Essay :

(2 × 15 = 30)

(1) Discuss the role of Sacral Neuro modulation in the treatment of urgency-frequency symptoms and also describe various effective surgical procedures for stress urinary incontinence in females.

(2) Present Scenario and future scope of Laparoscopic surgery in urology.

B. Write short notes on :

(10 × 5 = 50)

- (1) Genomes in Urology.**
- (2) Renal medullary carcinoma.**
- (3) Bladder cancer with gross positive nodes in pelvis.**
- (4) Complications of orthotopic bladder.**
- (5) Interstitial Brachy therapy in Ca. prostate.**
- (6) Cialis (Tadalafil).**
- (7) Tamsulasin.**
- (8) Lasers its application in Urology.**
- (9) Immunotherapy for superficial T.C.C. bladder.**
- (10) Hormonic scalpel.**

AUGUST - 2004

[KL 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Genito-Urinary Surgery

**Paper IV — RECENT ADVANCES IN GENITO –
URINARY SURGERY**

Time : Three hours

Maximum : 100 marks

Theory : Two hours and

Theory : 80 marks

forty minutes

MCQ : Twenty minutes

MCQ : 20 marks

Answer ALL questions.

I. Essay Questions :

(2 × 15 = 30)

**(1) Discuss the role of Gene Therapy in the
management of Urological Malignancy.**

**(2) Discuss in detail the Laproscopic live donor
Nephrectomy.**

II. Write short notes :

(10 × 5 = 50)

- (a) Biodegradable urethral stents .**
- (b) Holmium Laser.**
- (c) Acucise Endopydotomy.**
- (d) Management of steinstrasse.**
- (e) Newer Tumor markers in bladder cancer.**
- (f) Robotc surgery in Urology.**
- (g) Status of non contrast Enhanced CT in stone
disease.**
- (h) Desmopressin.**
- (i) IVF in the management of male infertility.**
- (j) Hemospermia.**

FEBRUARY - 2005

[KM 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Genito-Urinary Surgery

Paper IV — RECENT ADVANCES IN GENITO-
URINARY SURGERY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Describe the approach taken for a two year old child who presents with bilateral Wilm's Tumour.

(15)

(2) What is your evaluation of an 8 months old boy who presents with scrotal mass that does not transilluminate.

(15)

II. Short notes : (10 × 5 = 50)

(a) The difference between urinary colonization and urinary infection.

(b) Mitrofanoff principle.

(c) International classification of vesico ureteric reflux.

(d) Classification Wide (Mega) ureters — Give examples.

(e) Enumerate the differences between autosomal recessive polycystic kidney disease and autosomal dominant polycystic kidney disease.

(f) Bilateral renal agenesis.

(g) The developmental anomaly in bladder exstrophy.

(h) Renal vein rennin assay.

(i) Pathological classification of renovascular disease.

(j) Write an algorithm for the evaluation of an incidentally found adrenal mass.

FEBRUARY - 2006

[KO 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Genitourinary Surgery

**Paper IV — RECENT ADVANCES IN
GENTOURINARY SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

**(1) Immunologic strategies in the management
of Renal and Prostatic carcinoma.**

(2) Tissue engineering in urology.

II. Short notes : (10 × 5 = 50)

(a) Mercapto Acetyl Triglycine

(b) Intra cytoplasmic sperm injection

(c) Duloxetine

(d) Laparoscopic ureteral reimplantation

(e) Diagnosis of interstitial cystitis

(f) Cryo ablation in carcinoma prostate

(g) Atypical mycobacteria

**(h) Urinary Ascitis in paediatric patients –
management**

(i) Complications of penile prosthesis

(j) Radio frequency ablation in urology.

AUGUST - 2006

[KP 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Urology

**Paper IV — RECENT ADVANCES IN
GENITOURINARY SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Discuss ideal modern urodynamic laboratory.
(20)

(2) Nephron sparing surgery for R.C.C. (15)

(3) Describe the advances in last 10 years in the
field of minimally invasive surgery in urology. (15)

II. Write short notes on :

(6 × 5 = 30)

(a) Recent trends in treatment of advanced carcinoma kidney.

(b) Docetaxil – indication and results.

(c) Papamycin – mechanism of action and indication.

(d) PET in urological malignancy – indication.

(e) Advantage of MAG-3 over other agents in renal scanning.

(f) Green light laser prostatectomy – Advantage and disadvantage.

FEBRUARY - 2007

[KQ 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Urology

Paper IV — RECENT ADVANCES IN UROLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

1. Describe briefly the currently prevailing methods used for non extirpative renal tumor ablation. (20)
2. Discuss the complications and their management of intravesical instillation of BCG. (15)
3. Enumerate the urological complications of renal transplantation. How do you prevent them? (15)

II. Write short notes on :

(6 x 5 = 30)

1. Botulinum a toxin.
2. Transplant hand.
3. Biochemical tests in the diagnosis of pheochromocytoma.
4. Testicular microlithiasis.
5. Management of clinically insignificant residual fragments following ESWL.
6. Enumerate the non contrast spiral CT findings in a patient with ureteric colic due to 4 mm stone in the lower ureter.

[KR 047]

Sub. Code : 1654

M.Ch. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Urology

Paper IV — RECENT ADVANCES IN UROLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Discuss the complications in urologic laparoscopic surgery. (20)

(2) Discuss the recent management of stress urinary incontinence. (15)

(3) Discuss the merits and demerits of different methods of laser Prostatectomy. (15)

II. Short notes : (6 × 5 = 30)

- (a) Prenatal imaging and intervention.**
- (b) Virtual cystoscopy.**
- (c) Bipolar and monopolar TURP : current status and its future.**
- (d) Non tuberculous mycobacterium.**
- (e) Future of open surgical procedures in urological practice.**
- (f) Grade III VUR in 16 years girl - management options.**

August - 2009

[KV 047]

Sub. Code: 1654

M.CH DEGREE EXAMINATIONS

**(Super Specialities)
(Revised Regulations)**

Branch IV – Urology

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays: 2 x 20 = 40 Marks

1. Discuss the molecular mechanism of kidney development.
2. Discuss the role of active surveillance in the management of prostate cancer.

II. Write short notes on: 10 X 6 = 60 Marks

1. Carbonic anhydrase IX as a tumor marker in urinary tract tumors.
2. Fluorescent cystoscopy.
3. Neuro endocrine carcinoma prostate.
4. The Medical Therapy of Prostate Symptom study (MTOPS).
5. Sildenafil failure.
6. Frequency doubled double pulse Nd:YAG laser.
7. Intratubular germcell neoplasia.
8. Magnetic resonance lymphography.
9. Oncogenes.
10. Cystatin.

August 2010

[KX 047]

Sub. Code: 1654

M.CH DEGREE EXAMINATIONS

(Super Specialities)

(Revised Regulations)

Branch IV – Urology

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss the etiology, classification and management of posterior urethral injuries.
2. PDE - 5 inhibitors : current status and future trends.

II. Write short notes on:

10 X 6 = 60 Marks

1. Ca - in situ urinary bladder.
2. Potassium citrate in urology.
3. Stem cell therapy in urology.
4. Pre-operative preparation and post operative management of phaeochromocytoma.
5. Gram negative septicemia.
6. Hemostatic agents and tissue glues in urology.
7. Acute rejection in Renal transplantation.
8. Bisphosphonates in prostate cancer.
9. Testicular torsion.
10. Marginal kidney donor.

August 2011

[KZ 047]

Sub. Code: 1654

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH IV – UROLOGY

RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Describe the treatment Strategies for High Risk locally advanced Prostate Cancer. | 11 | 35 | 15 |
| 2. How will you evaluate and manage Pediatric Nephrolithiasis? | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Complications of Orthotopic Bladder. | 4 | 10 | 7 |
| 2. Newer Tumor Markers in Bladder Cancer. | 4 | 10 | 7 |
| 3. Robotic Surgery in Urology. | 4 | 10 | 7 |
| 4. Saline Trans Urethral Resection of Prostate (Saline TURP). | 4 | 10 | 7 |
| 5. International classification of Vesico - Ureteric Reflux. | 4 | 10 | 7 |
| 6. Intra Cytoplasmic Sperm Injection. | 4 | 10 | 7 |
| 7. Bisphosphonates in prostate cancer. | 4 | 10 | 7 |
| 8. Recent Trends in the treatment of Advanced Carcinoma Kidney. | 4 | 10 | 7 |
| 9. Botulinum Toxin in Urology. | 4 | 10 | 7 |
| 10. Biochemical Test in the diagnosis of Pheochromocytoma. | 4 | 10 | 7 |

[LB 047]

AUGUST 2012

Sub. Code: 1654

M.Ch – UROLOGY

Paper – IV RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Etiology and management of bladder diverticulum.	16	35	15
2. Controversies in PSA screening for prostate cancer.	16	35	15

II. Write notes on :

1. PCA 3.	4	10	7
2. Second TUR in high risk bladder cancer.	4	10	7
3. Three dimensional reconstruction in CT scanning.	4	10	7
4. Role of diffusion weighted MRI imaging in urological cancers.	4	10	7
5. Role of FNAC in a renal mass lesion.	4	10	7
6. Bone metastases in prostate cancer-approach to management.	4	10	7
7. XDR tuberculosis.	4	10	7
8. Steroid free immunosuppression regimen.	4	10	7
9. Current status of antireflux surgery in vesicoureteral reflux.	4	10	7
10. Intravesical treatment for overactive bladder.	4	10	7

M.Ch. – UROLOGY
Paper – IV RECENT ADVANCES IN UROLOGY
Q.P.Code: 181654

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the primary and salvage cryotherapy for prostate cancer.
2. Describe the role of sacral Neuro modulation in the treatment of Urgency-frequency symptoms and also describe various effective surgical procedures for stress urinary incontinence in females.

II. Write notes on:

(10X7=70)

1. Genomes in urology.
2. Acid-Base metabolic effects of the pneumoperitoneum.
3. Malakoplakia.
4. Rigiscan.
5. Etiologies and management of persistent prostatic Haematuria
6. Bacterial biofilms in patients with indwelling urinary catheters.
7. Role of Endometriosis in urology.
8. Familial and hereditary Renal cancer syndromes.
9. Management strategy for lower urinary tract dysfunction.
10. Genetic basis of male reproductive failure.

[LF 047]

AUGUST 2014

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q. P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the evaluation, investigations and management of infertility due to azoospermia in a 28 year old male.
2. Discuss the current status of newer Intravesical agents for BCG refractory bladder cancer.

II. Write notes on:

(10 x 7 = 70)

1. Urinary markers of Transitional Cell Carcinoma.
2. Role of peri-operative intravesical chemotherapy in carcinoma bladder.
3. Role of tissue engineered autologous urethra in urethral reconstruction.
4. Radical prostatectomy versus watchful waiting in early prostate cancer - current concepts.
5. Alpha blockers in the treatment of BPH.
6. Management of premature ejaculation.
7. Zoledronic acid in Carcinoma prostate.
8. Peyronie's disease.
9. Intercalating agents in Carcinoma bladder.
10. Role of Optical coherence tomography in carcinoma bladder.

[LH 047]

AUGUST 2015

Sub. Code: 1654

M.Ch. – UROLOGY

PAPER IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the evaluation, investigations and management of an incidentally detected adrenal mass.
2. Discuss the basic principles and clinical applications of positron emission tomography in urological malignancies.

II. Write notes on :

(10 x 7 = 70)

1. Neuromodulation in lower urinary tract diseases.
2. Surgical treatment of Peyronie's disease.
3. Role of percutaneous needle biopsy in a renal mass lesion.
4. Clinical significance of urinary PCA-3 assay.
5. Penile intra epithelial neoplasia.
6. Urological manifestations of sarcoidosis.
7. Role of Desmopressin in the management of BPH.
8. Pelvic lipomatosis.
9. Zoledronic acid in Carcinoma prostate.
10. Female epispadias.

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P.Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. The assessment and management of intraoperative iatrogenic ureteral and bladder injuries during the endoscopic management of urological diseases.
2. The contemporary management inguinal nodes in a case of carcinoma of penis.

II. Write notes on:

(10 x 7 = 70)

1. Tuberous sclerosis complex.
2. R.E.N.A.L Nephrometry scoring system.
3. Sterilization of endoscopic instruments.
4. High-intensity focused ultrasound (HIFU).
5. Buccal mucosal graft.
6. Urological manifestations of HIV infection.
7. The role of urodynamics in the diagnosis and treatment of stress urinary incontinence.
8. Pelvic lipomatosis.
9. Lycopene-its uses in urological practice.
10. Complications of chemotherapeutic drugs used in genitourinary malignancy.

(LL 047)

AUGUST 2017

Sub. Code:1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P.Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Management of a 55 years old man presenting with bilateral stag horn calculus with renal dysfunction.
2. Compare the techniques and results of open hand assisted and full laparoscopic Donor Nephrectomy.

II. Write notes on:

(10 x 7 = 70)

1. Gleason's pattern scale.
2. Robotics in Urology.
3. Anatomic description of limited and extended pelvic Lymph node Dissection for Prostate Cancer.
4. Renal Arteriovenous fistula.
5. Principle of monopolar and bipolar surgical diathermy machine.
6. Conn's Syndrome.
7. Natural orifice transluminal endoscopic surgery access.
8. CLAM cystoplasty.
9. Access techniques in dialysis.
10. Radioimmunoassay in urology.

(LN 047)

AUGUST 2018

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P.Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the recent trends in diagnosis and management of interstitial cystitis.
2. Discuss the evaluation and management of infertile male.

II. Write notes on:

(10 x 7 = 70)

1. Fluorescence cystoscopy.
2. Etiology and treatment of intractable bladder haemorrhage.
3. Elastography.
4. Protocols for watchful waiting in prostate cancer.
5. MRI in Urology.
6. Preoperative preparation of a patient with Pheochromocytoma.
7. Yusauf's syndrome.
8. Radiofrequency ablation in urology.
9. Mycophenolate mofetil.
10. Narrow band imaging.

(LP 047)

AUGUST 2019

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Current management of non obstructive azoospermia.
2. The recent advances in the management of upper urinary tract calculus disease.

II. Write notes on:

(10 x 7 = 70)

1. Ischaemic priapism.
2. Pathophysiology of Reperfusion injuries and its clinical impact.
3. Recent advances in urological ultrasonogram.
4. Bladder preservation protocol in muscle invasive bladder cancer.
5. Ambulatory urodynamics.
6. Xanthogranulomatous pyelonephritis.
7. Frequency volume chart.
8. Monopolar vs bipolar resection of adenoma of prostate.
9. Monoclonal antibodies in current clinical transplant practice.
10. Acute kidney injury.

(LQ 047)

FEBRUARY 2020

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe Anatomical, physiological modifications, diagnostic procedure and treatment of urological emergencies in pregnant women.
2. Discuss the basic principle and clinical applications in positron Emission Tomography in urological Malignancies.

II. Write notes on:

(10 x 7 = 70)

1. Flow cytometry.
2. Female Epispadias.
3. Carcinoma in situ Bladder.
4. TANAGHO procedure.
5. OK-T3.
6. Free PSA.
7. Magnetic resonance Lymphography.
8. Pelvic Lipomatosis.
9. Management of Ureteric avulsion injury at L5 Level following ureteroscopy lithotripsy.
10. p-53.

(LR 047)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Discuss the management of renal trauma following road traffic accident.
2. Evaluation of living donor and pathophysiology and management of antibody mediated allograft rejection.

II. Write notes on: (10 x 7 = 70)

1. Role of Dual Source CT (DSCT) in urology
2. S.T.O.N.E Nephrolithometry
3. Selective arterial prostate embolization
4. Prostatic urethral lift
5. Injection therapy for female stress urinary incontinence
6. Ambulatory urodynamics
7. Magnetic resonance lymphography
8. Management of acute scrotum
9. Use of botulinum toxin
10. Urethrorrhagia

(MCH 0821)

AUGUST 2021

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the evaluation and management of post renal transplant anuria in immediate post op period.
2. Current concepts in the management of metastatic prostate cancer.

II. Write notes on:

(10 x 7 = 70)

1. Non autologous materials for treatment of vesicoureteric reflex in children.
2. Sertoli only cell syndrome.
3. Radionucleotide agents and their uses in urology.
4. Stampede trial, its design and main findings.
5. Newer diagnostic tools used in genitourinary tuberculosis.
6. AUS-AMS 800 artificial urinary sphincter.
7. PET scan in urology.
8. Robotics in urology.
9. Sperm preservation.
10. Role of nanotechnology in the management of urological cancer.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0822)

AUGUST 2022

Sub. Code: 1654

M.Ch. – UROLOGY

Paper IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Recent advances in Retrograde intrarenal surgery- scopes, lasers and accessory equipment.
2. Discuss the current role of radiotherapy in the management of Cancer Prostate and discuss briefly about proton therapy.

II. Write notes on: (10 x 7 = 70)

1. Rezum therapy in management of Benign Prostatic Hyperplasia.
2. Theranostics in Urology.
3. Growing Teratoma syndrome.
4. Confocal laser endomicroscopy.
5. Contrast Enhanced Ultrasound in urology.
6. Partial orchidectomy: Indications and techniques.
7. Stem cells in urology.
8. Mirabegron.
9. Stents in stricture urethra.
10. Non dismembered End to end urethroplasty.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0124)

JANUARY 2024

Sub. Code: 1654

M.Ch. – UROLOGY

PAPER IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss about video-urodynamics and discuss newer techniques in management of female stress urinary incontinence.
2. Describe in detail about calyceal anatomy and compare supine vs prone PCNL.

II. Write notes on: **(10 x 7 = 70)**

1. Multiparametric MRI in prostate cancer.
2. Renal scoring in Nephron Sparing surgeries.
3. Mycophenolate Mofetil.
4. Narrow Band Imaging (NBI).
5. Radio frequency ablation in Urology.
6. Newer drugs in management of Overactive Bladder (OAB).
7. Intra Cystoplasmic Sperm Injection (ICSI).
8. Extra-adrenal Pheochromocytoma.
9. Saline TURP (Bipolar TURP).
10. Renal Autotransplantation.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0225)

FEBRUARY 2025

Sub. Code: 1654

M.Ch. BRACH IV – UROLOGY

PAPER IV – RECENT ADVANCES IN UROLOGY

Q.P. Code: 181654

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the current trends in the management of metastatic hormone sensitive and metastatic castration resistant Prostate Cancer.
2. Discuss in detail the evaluation and management of an infertile male.

II. Write notes on:

(10 x 7 = 70)

1. Thulium fiber laser in urology.
2. FANS.
3. Degarelix.
4. Role of PDE5 inhibitors in BPH.
5. ECIRS.
6. Bladder preservation in MIBC.
7. Denosumab.
8. HIFU in urology.
9. Immune Checkpoint Inhibitors.
10. Flow cytometry in urology.
