

FEBRUARY - 2007

[KQ 045]

Sub. Code : 1652

M.Ch. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV —Urology

**Paper II — GENERAL ADULT AND PEDIATRIC
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 the complications of circumcision and their management in brief. (20)
2. Discuss the various options in the management of recurrent urinary tract infection in a 40 year old lady. (15)
3. How do you manage a failed pyeloplasty (open)? (15)

II. Short notes :

(6 × 5 = 30)

1. Indications and Medical Management of Ormond's disease.
 2. Kattan's Nomogram.
 3. Birt Hogg dube tumor.
 4. Wind sock valve.
 5. High flow priapism.
 6. Adolescent Varicocele – Management.
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[KR 045]

Sub. Code : 1652

M.Ch. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Urology

**Paper II — GENERAL ADULT AND PEDIATRIC
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 Questions:

1. Discuss the development of ureter. Classify ureterocele. Discuss the management of ureterocele. (20)

2. Discuss in short the management of persistent hydrouretero Nephrosis after fulguration of posterior urethral valves with mild chronic renal failure (CRF) in a boy aged nine. (15)

3. Discuss in brief the endo-urological management of upper urinary tract urothelial tumours. (15)

II. Short Notes :

(6 × 5 = 30)

(a) Pharmacological manipulations of detrusor functions.

(b) Resectoscope and its accessories with endovision camera.

(c) Intravenous urogram. (I.V.U)

(d) Cystinurea.

(e) Retractable testis.

(f) Emphysematous pyelonephritis.

August - 2009

[KV 045]

Sub. Code: 1652

M.CH DEGREE EXAMINATIONS

(Higher Specialities)

(Revised Regulations)

Branch IV – Urology

Paper II – GENERAL ADULT & PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays: 2 x 20 = 40 Marks

1. Discuss the management of urolithiasis with chronic renal failure.
2. Discuss the etiology of hypospadias. How do you evaluate a child with proximal hypospadias.

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

1. Mechanisms of renal failure in dominant polycystic kidney disease.
2. Crede's maneuver.
3. Squamous cell carcinoma of the urinary bladder.
4. Enumerate the indications for immediate repair of bladder injury.
5. Enumerate the differentiating features between congenital and acquired bladder diverticulum.
6. Neobladder rupture.
7. Valve bladder syndrome.
8. Giggle incontinence.
9. The dislocated testis.
10. Sacral agenesis.

August 2010

[KX 045]

Sub. Code: 1652

M.CH DEGREE EXAMINATIONS

(Higher Specialities)

(Revised Regulations)

Branch IV – Urology

Paper II – GENERAL ADULT & PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss the various options in the management of recurrent urinary tract infection due to re-infection in a 30 year old lady.
2. Discuss the aetiopathogenesis and management of chyluria.

II. Write short notes on:

10 X 6 = 60 Marks

1. Renal osteodystrophy.
2. Spontaneous renal haemorrhage.
3. Female varicocele.
4. Mega calicosis.
5. Leak point pressures.
6. Bilateral single system ectopic ureters.
7. Megalourethra.
8. Sibling reflux.
9. Genital defects in extrophy-epispadias complex.
10. Sertoli cell only syndrome.

August 2011

[KZ 045]

Sub. Code: 1652

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

BRANCH IV – UROLOGY

GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

**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 development of Trigone and Urinary Bladder.
How will you evaluate and manage a 5 year old Child with
Vesico – Ureteric Reflux. | 11 | 35 | 15 |
| 2. Discuss the Aetiopathogenesis, Clinical feature
and management of Chyluria. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Mechanism of Renal failure in Dominant Polycystic
Kidney. | 4 | 10 | 7 |
| 2. Etiology and management of Squamous cell Carcinoma of
Urinary Bladder. | 4 | 10 | 7 |
| 3. Megalourethra. | 4 | 10 | 7 |
| 4. Bilateral Single System Ectopic Ureter – Clinical feature
and management. | 4 | 10 | 7 |
| 5. Serotoli cell only Syndrome. | 4 | 10 | 7 |
| 6. Prune – Belly Syndrome. | 4 | 10 | 7 |
| 7. Yolk Sac Tumor – Testis. | 4 | 10 | 7 |
| 8. Carcinoma in Situ Bladder – Clinical Feature and
management. | 4 | 10 | 7 |
| 9. How will you manage Post Renal Transplantation →
Oligo - Anuria. | 4 | 10 | 7 |
| 10. Penile Fracture. | 4 | 10 | 7 |

[LB 045]

AUGUST 2012

Sub. Code: 1652

M.Ch – UROLOGY

Paper – II GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

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. Etiopathogenesis of bladder exstrophy and describe the steps of primary exstrophy repair. | 16 | 35 | 15 |
| 2. Natural history of benign prostatic hyperplasia and the principles of its medical management. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Neourethral coverage in hypospadias repair. | 4 | 10 | 7 |
| 2. Management of post-transplant ureteric stricture. | 4 | 10 | 7 |
| 3. Organ sparing treatment of penile carcinoma. | 4 | 10 | 7 |
| 4. Urine analysis – diagnostic implications. | 4 | 10 | 7 |
| 5. Detrusor external sphincter dyssynergia. | 4 | 10 | 7 |
| 6. Evaluation of the recurrent stone former. | 4 | 10 | 7 |
| 7. Urological applications of botulinum toxin. | 4 | 10 | 7 |
| 8. Jejunal conduit syndrome. | 4 | 10 | 7 |
| 9. Intensity modulated radiation therapy – application in urology. | 4 | 10 | 7 |
| 10. BCG failure – management. | 4 | 10 | 7 |

M.Ch. – UROLOGY
Paper – II GENERAL ADULT AND PAEDIATRIC UROLOGY
Q.P.Code: 181652

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the risk stratification and management of good risk metastatic nonseminomatous germ cell tumors of the testis.
2. Discuss the pathophysiology and management of vesicoureteric reflux.

II. Write notes on:

(10X7=70)

1. Algorithm for diagnosis and management of ejaculatory duct obstruction.
2. Pathophysiology of interstitial cystitis.
3. No scalpel vasectomy.
4. Management options in failed pyeloplasty.
5. Prognostic factors in renal cell carcinoma.
6. Abdominal leak point pressure.
7. How to evaluate the function of a non-visualized kidney on intravenous Urogram.
8. Valve bladder syndrome.
9. Growing teratoma syndrome.
10. Tests for biochemical diagnosis of Pheochromocytoma.

[LF 045]

AUGUST 2014

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q. P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Antenatal diagnosis of Hydronephrosis and the post natal management of antenatally diagnosed hydronephrosis.
2. Discuss the pathogenesis, investigations and treatment of castrate resistant prostate cancer.

II. Write notes on:

(10 x 7 = 70)

1. Urinary diversions in Posterior Urethral Valves
2. Hyper filtration renal injury
3. Injection therapy in VUR
4. Desmopressin
5. Captopril Renography
6. Oncogenes
7. Von-Hippel Lindau syndrome
8. Diagnosis and management of priapism
9. Contrast nephropathy
10. Post obstructive diuresis.

[LH 045]

AUGUST 2015

Sub. Code: 1652

M.Ch. – UROLOGY

PAPER II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Discuss developmental anomalies of kidneys with management options of their complications.
2. Discuss pathophysiology, manifestations and management of genito urinary tuberculosis in an adult male.

II. Write notes on :

(10 x 7 = 70)

1. Testicular torsion.
2. Verrucous carcinoma of penis.
3. BCG failure in the management of carcinoma bladder.
4. Medical management of erectile dysfunction.
5. Hyperoxalosis.
6. Hyperfiltration renal injury.
7. Detrusor – sphincter dyssynergia.
8. Desmopressin.
9. Snodgrass repair for Hypospadias.
10. Injection therapy in VUR.

(LJ 045)

AUGUST 2016

Sub. Code:1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P.Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. The genetics, pathology and management of Wilms tumour.
2. The management of spontaneous prostate related bleeding.

II. Write notes on:

(10 x 7 = 70)

1. Management of (Vesicoureteral Reflux) VUR in children.
2. Female urethral diverticulum.
3. Circumcision and complications of circumcision.
4. Marginal kidney donor.
5. Ongogenes.
6. Optimizing the outcome of Extracorporeal shock wave lithotripsy (ESWL).
7. Clean Intermittent Catheterization.
8. Chemoprevention of prostate cancer.
9. Calyceal diverticulum.
10. Multicystic dysplastic kidney.

(LL 045)

AUGUST 2017

Sub. Code:1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P.Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Evaluation and Management of stones in Anomalous Kidneys.
2. Anatomic and endocrine approach to disorders of sexual differentiation.

II. Write notes on:

(10 x 7 = 70)

1. Pathophysiology and Medical Management of uric acid stones.
2. Indications of urethrectomy in patients with muscle invasive bladder cancer.
3. Urinary tract dysfunction in meningomyelocele.
4. Clinical and Pathological Classification of Paratesticular masses.
5. Pathophysiology and Medical therapy of Lower Urinary Tract Symptoms (LUTS).
6. Evaluation and Management of Micropenis to a boy with less than 18 years of age.
7. Management of 1-2 cm Lower Pole calyceal stone.
8. Management of a child with penile hypospadias.
9. Merits and Demerits of endopyelotomy.
10. Diagnosis and Management of Hyponatremia.

(LN 045)

AUGUST 2018

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P.Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Surgical repair of previously failed Urethral reconstruction (Urethral Cripples) in Urethral Stricture disease and hypospadias in male.
2. Discuss uses of intestine in urological practice with merits and demerits.

II. Write notes on:

(10 x 7 = 70)

1. Management of Neurogenic Bladder in multiple sclerosis patients.
2. Modified Koyanagi Hypospadias repair.
3. Intermittent androgen blockage.
4. Anatomical and histological differences in Skin, Buccal mucosa, intestine mucosa and bladder mucosa in substitution urethroplasty.
5. Prune belly syndrome.
6. Management of 2 cm pedunculated papillary urothelial neoplasia of low malignant potential of lower ureter protruding in to bladder.
7. Etiopathogenesis and management of struvite calculi.
8. Challenges in Urolithiasis management in children.
9. Post Renal Transplant Lymphocele.
10. Renal vein thrombosis etiology, evaluation and management.

(LP 045)

AUGUST 2019

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Image based approaches in the evaluation and the management of renal masses.
2. Functional anatomy of antireflux mechanism at the vesicoureteral junction and management of vesicoureteral reflux in children.

II. Write notes on:

(10 x 7 = 70)

1. Organ sparing treatment in carcinoma of penis.
2. Renal tubular acidosis.
3. Urolithiasis in pregnancy.
4. Evaluation of haematuria in a child.
5. Unilateral agenesis.
6. Female dyspareunia.
7. Torsion of testis and its appendices.
8. Newer biomarkers for carcinoma of prostate.
9. Adolescent clinic.
10. Mayer- Rokitansky-Kuster-Kasuer syndrome.

(LQ 045)

FEBRUARY 2020

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the Biochemical, Hormonal evaluation, imaging characters and Management of adrenal mass.
2. Evaluation and Management of posterior urethral valve.

II. Write notes on:

(10 x 7 = 70)

1. Etiology and Management of premature Ejaculation.
2. Marginal Kidney Donors.
3. Techniques and indications of surgical sperm retrieval.
4. Management of the Neurogenic bladder in multiple sclerosis patients.
5. Management of a 12 Years old girl with unilateral Grade III Vesico ureteric reflux.
6. Guy's Stone Score.
7. Nephroblastomatosis.
8. Management of High grade Prostatic intraepithelial neoplasia.
9. Prognostic factor in Renal Cell Carcinoma.
10. Diagnosis and Management of intraoperative complications of Percutaneous Nephrolithotripsy.

(LR 045)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the various options in the management of recurrent urinary tract infection in a diabetic female patient.
2. Discuss the development of ureter. Classify ureteroceles. Discuss the management of ureterocoele.

II. Write notes on:

(10 x 7 = 70)

1. Magnetic resonance imaging for the prostate gland.
2. Antimicrobial prophylaxis
3. Chronic pelvic pain syndrome
4. Human papilloma virus
5. Testosterone therapy
6. Metabolic syndrome and urological diseases
7. Evaluation of male infertility
8. Peyronies disease
9. Management of non palpable testicular lesions
10. Credes manoeuver

(MCH 0821)

AUGUST 2021

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Genetics, pathology and management of Wilm's Tumor.
2. Discuss the evaluation and management of a patient with microscopic hematuria.

II. Write notes on:

(10 x 7 = 70)

1. Valve bladder syndrome.
2. Giggle incontinence.
3. Lasers in urology.
4. Bilateral single system ectopic ureter.
5. Penile fracture.
6. Detrusor external sphincter dyssinergia.
7. Pathophysiology of interstitial cystitis.
8. Management options in failed pyeloplasty.
9. Renal oncocytoma.
10. Hyper filtration renal injury.

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

(MCH 0822)

AUGUST 2022

Sub. Code: 1652

M.Ch. – UROLOGY

Paper II – GENERAL ADULT AND PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss the Development of ureter and embryology of complete duplication of ureter and management of Pelviureteric junction obstruction in lower ureter moiety.
2. Types of Emphysematous Pyelonephritis, management of Type 4 Emphysematous pyelonephritis .

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

1. Management of asymptomatic bacteriuria.
2. Xanthogranulomatous pyelonephritis.
3. Retrograde access to the kidney.
4. Malakoplakia.
5. Pathogenesis of pyonephrosis and its complications.
6. Recurrent Epididymo-orchitis in an 8 years old boy: Evaluation and management.
7. Diagnosis and management of Primary hyperoxaluria.
8. Pathogenesis and management of Hutch diverticulum.
9. Embryology of exstrophy- epispadias complex.
10. Antenatal diagnosis of Posterior Urethral valve and immediate post-delivery evaluation.

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

(MCH 0124)

JANUARY 2024

Sub. Code: 1652

M.Ch. – UROLOGY

PAPER II – GENERAL ADULT & PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the pathophysiology and management of Vesico-ureteric reflex.
2. Describe the Antenatal diagnosis of Hydronephrosis and postnatal management of antenatally diagnosed hydronephrosis.

II. Write notes on:

(10 x 7 = 70)

1. RPLND – Retroperitoneal lymph node dissection in management of testicular cancers.
2. Arterial Priapism.
3. Female Urethral Diverticula.
4. Verrucous Carcinoma of Penis.
5. Anorchia.
6. Management of Hypospadias Cripple.
7. Management of BCG intravesical therapy failed Carcinoma Bladder.
8. Calyceal Diverticula.
9. Multicystic Dysplastic Kidney.
10. CIC – Clean Intermittent Catheterisation.

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

(MCH 0225)

FEBRUARY 2025

Sub. Code: 1652

M.Ch. BRACH IV – UROLOGY

PAPER II – GENERAL ADULT & PAEDIATRIC UROLOGY

Q.P. Code: 181652

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Contemporary management of Inguinal nodes in Carcinoma penis.
2. Discuss the development of ureter. Classify ureteroceles and its management.

II. Write notes on:

(10 x 7 = 70)

1. Sertoli Cell only syndrome.
2. Renal hydatidosis.
3. Perfusion fluids in transplant.
4. Valve bladder syndrome.
5. MAGPI Repair.
6. Conns syndrome.
7. Approach to Ambiguous genitalia.
8. Testosterone therapy.
9. Penile fracture.
10. High grade PIN.
