Rajiv Gandhi University of Health Sciences, Karnataka

M.Ch. Degree Examination – 15-Mar-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – I
QP Code: 9161

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Write briefly on molecular bio-markers in prostate cancer.
2. Write on genetic perturbations in prostate, bladder and renal cancer.
3. Write on radiation safety in urology,
4. Write briefly on Targeted therapy for renal cancer.
5. Write briefly on management of refractory overactive bladder
6. Write briefly on Prostatic Intraepithelial Neoplasia (PIN) and Atypical small acinar I proliferation.
7. Describe the host-pathogen interaction in UTI.
8. Describe the pathophysiology and management of post-obstructive diuresis.
9. How do you prevent and manage post-operative acute kidney injury?
10. Give a detailed account of epidemiology, physical chemistry and pathophysiology of uric acid lithiasis.

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M.Ch. Degree Examination – 17-Mar-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – II
QP Code: 9162

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary. .

Answer All The Questions **10 x 10 = 100 Marks**

1. Discuss the metabolic evaluation for high risk and recurrent stone formers.
2. Describe Bosniak classification of renal cyst and management of Bosniak type III renal cyst.
3. Discuss the evaluation and management of chronic scrotal pain syndrome.
4. Discuss management of functional constipation and lower urinary tract symptoms.
5. Discuss the application of MRI in Urology.
6. Discuss the roles of nuclear imaging in diagnosis and management of vesicoureteral reflux.
7. Discuss the evaluation of eassential hematuria.
8. Discuss the role of different imaging modalities in the diagnosis of stricture Urethra.
9. Discuss the different types cystogram and its Role in the diagnosis of different urological conditions.
10. Discuss the role of PET CT in diagnosis and management and follow upon in genitourinary malignancy.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.Ch. Degree Examination – 19-Mar-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – III
QP Code: 9163

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. MTOPS study (Medical Therapy of Prostate Symptoms)
2. Complications in Urologic Laparoscopic Surgery
3. Active surveillance in prostate cancer
4. Management of Tuberculous timble bladder with left HUN due to lower ureteric stricture and creatinine of 3 mg/dl
5. Bladder management in Autonomic Dysreflexia
6. Immunosuppression in renal transplant
7. **Boari** falp – principle and indication
8. Renal Tubular acidosis
9. Renal perfusion solution used in renal transplantation
10. Evaluation and management of Antenatal hydronephrosis

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M.Ch Degree Examination – 21-Mar-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – IV
QP Code: 9164

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

ANSWER ALL THE QUESTIONS **10 X 10 = 100 MARKS**

1. Discuss regarding the role of Nephron sparing surgery in Renal cell Carcinoma
   Or
   Familial syndromes in Renal cell Carcinoma
2. Role of Botulinum toxin in urology
3. **Minimally** invasive surgical therapy in management of BPE
4. Targeted therapy in metastatic RCC
5. Targeted therapy in carcinoma bladder
6. Write briefly about the landmark studies in Vesico-ureteral reflux
7. Valve bladder syndrome
8. Management of biochemical recurrence **after** total radical prostatectomy **in** carcinoma prostate
9. Management of right renal cell carcinoma with level 3 thrombus in IVC
10. Injectable agents used in management of urinary incontinence

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Rajiv Gandhi University of Health Sciences, Karnataka

M.Ch. Degree Examination – 14-Aug-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – I
QP Code: 9161

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Pathophysiology of high / low flow priapism
2. Radiopharmaceuticals used in urology
3. Antibiotic prophylaxis in urologic surgery
4. Discuss cell cycle in development of bladder tumours
5. Apoptosis
6. Detrusor sphincter dyssynergia
7. Post obstructive diuresis
8. Write about the role of Imaging in the evaluation of Male infertility
9. Renal resistive indices
10. Write briefly on embryology of kidney and congenital disorders of ascent of kidney

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M.Ch. Degree Examination – 16-Aug-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – II
QP Code: 9162

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Discuss the management of Stage II B Non seminomatous germ cell tumors.
2. Discuss in detail the minimally invasive **therapies** in benign prostatic hyperplasia.
3. Use of lasers in urology
4. Retroperitoneal fibrosis
5. Emphysematous pyelonephritis
6. Partin tables
7. Cadaver donor evaluation for renal transplantation
8. Management of torsion testis
9. HIV in urology
10. Current status of PSA in prostate cancer screening

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Rajiv Gandhi University of Health Sciences, Karnataka

M.Ch. Degree Examination – 18-Aug-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – III
QP Code: 9163

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Describe the mechanism of action of different agents used to prevent reperfusion injury in renal transplantation.
2. Describe the approach to management of traumatic Pelvi-ureteric junction avulsion following blunt abdominal injury.
3. Describe the surgical considerations and operative technique of Ileo-caecal cystoplasty.
4. Describe techniques for operative management in Idiopathic retroperitoneal fibrosis.
5. Describe surgical considerations and techniques for managing a retroperitoneal testis diagnosed at birth.
6. Describe the surgical options available following recurrent failures of buccal mucosal onlay Urethroplasty.
7. Discuss the different surgical options for dialysis access in end-stage renal disease patients.
8. Discuss management of post PCNL nephrocutaneous fistula.
9. **Describe the technique of the Marshall-Marchetti-Krantz procedure and its expected outcomes**
10. **Describe different surgical techniques for correction of Ectopia vesicae**

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M.Ch Degree Examination – 20-Aug-2025

Time: Three Hours **Max. Marks: 100 Marks**

Urology - PAPER – IV
QP Code: 9164

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

ANSWER ALL THE QUESTIONS **10 X 10 = 100 MARKS**

1. Describe the different types of slings available for managing stress incontinence.
2. Beta 3 – agonist (Mirabegron)
3. Hormone replacement therapy in males – options, precautions, complications.
4. Newer radiopharmaceuticals used in Urology
5. Tissue engineering applications in Urology
6. Prostate cancer vaccine and role of immunotherapy in prostate cancer
7. Describe penile prostheses and the techniques of implantation.
8. Current status of medical expulsive therapy for ureteric calculi
9. Techniques for improving endoscopic diagnosis of Urothelial cancer
10. Continuous ambulatory peritoneal dialysis.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.Ch. Degree Examination – 24-Nov-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – I
QP Code: 9161

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Describe mechanisms of acid-base regulation by the kidney.
2. Describe the bacterial virulence factors contributing to UTI.
3. Describe the techniques used in urinary stone analysis with their advantages and disadvantages.
4. Describe the common aberrations seen in the spermatogenic cycle and the causes for the same.
5. Describe the pathophysiology of Renovascular hypertension.
6. Describe the embryology of the male reproductive system.
7. Describe the manifestations of Congenital Adrenal Hyperplasia.
8. Basis of logistic regression analysis and its application in Urology.
9. Basis and applications of nerve stimulation techniques in Urology
10. Methodology of Urinary cytology and techniques to enhance yield

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M.Ch. Degree Examination – 26-Nov-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – II
QP Code: 9162

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Intermittent Androgen blockage
2. Evaluation and management of Paediatric Urolithiasis
3. Etiology, evaluation and management of renal vein thrombosis
4. Biochemical, Hormonal evaluation and management of adrenal mass
5. Guys stone score and its relevance in urological practice
6. **Non neurogenic Neurogenic bladder**
7. Management of biochemical recurrence after radical prostatectomy
8. Intestinal segments in Urology – Merits and demerits
9. Post transplant lymphocele
10. Intra testicular germ cell Neoplasia

Rajiv Gandhi University of Health Sciences, Karnataka

M.Ch. Degree Examination – 28-Nov-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – III
QP Code: 9163

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. **Discuss the surgical management of epispadias extrophy complex.**
2. Discuss the evaluation and treatment of obstructive Azospermia.
3. Discuss the pharmacological treatment of neurogenic bladder based on symptoms and urodynamic findings.
4. Discuss the surgical management of the Prune-Belly Syndrome patient.
5. Discuss preoperative evaluation and staging and surgical treatment of Wilms tumor.
6. Discuss the Pathophysiology and surgical management of posterior urethral valve.
7. Discuss endoscopic treatment of vesicoureteral reflux.
8. **Discuss the antegrade approach to access into the collecting system and complications with antegrade puncture of the collecting system**
9. **Discuss the management options for ureteral injuries at different levels.**
10. Discuss perioperative care of patients undergoing Kidney transplantation.

M.Ch Degree Examination – 01-Dec-2025

Time: Three Hours **Max. Marks: 100 Marks**

UROLOGY - PAPER – IV
QP Code: 9164

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Discuss complications of Ureteroscopy.
2. Discuss targeted therapy for bladder cancer.
3. Discuss the main steps of radical retropubic prostatectomy and Post operative complications.
4. **Discuss the urological complications of renal transplant**
5. Discuss the surgical techniques of laparoscopic Orchiopexy and its early complications.
6. Write briefly about ablative therapies in renal cell carcinoma
7. Write briefly about artificial urinary spincters
8. Discuss the Genitourinary complications of HIV infections.
9. Discuss various Nephrometry scoring system for partial nephrectomy.
10. Discuss the role of 4K score in the evaluation of carcinoma prostate.