Rajiv Gandhi University of Health Sciences

M.Ch Degree Examination – JULY-2019

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 questions

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Discuss physiology of erection and add a note on diagnostic evaluation of erectile dysfunction.
2. Discuss effects of obstruction on ureteral function.
3. Discuss embryology, anatomy of horse shoe kidney and management of ureteropelvic junction obstruction (UPJO) in horse shoe kidney.
4. Classify contrast agents and discuss contrast media reactions.
5. Discuss pathophysiology and management of urosepsis.
6. Discuss embryology of testis and mechanism involved in its descent.
7. Describe lymphatic drainage of penis and its relevance in the management of carcinoma penis.
8. Dual energy CT scan and its application in urology
9. Proto oncogene
10. Tc 99 MAG-3 renogram

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Rajiv Gandhi University of Health Sciences

M.Ch Degree Examination – JULY-2019

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 questions

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Classify cystic disorders of the Kidney.
2. Describe the management of a patient with recurrent Phaeochromocytoma.
3. Discuss the advantages and disadvantages of various urinary diversion techniques in a child with Posterior urethral valves and sepsis.
4. Describe aetiology, evaluation and management of monosymptomatic nocturnal enuresis.
5. Describe measures for the management of Priapism.
6. Describe management of a 18-year old with bilateral abdominal testes.
7. Discuss management of Chronic urinary retention due to benign prostatic enlargement.
8. Describe the approach to management of Stage IIa mixed germ cell tumour of the testis.
9. Discuss aetiology and management of recurrent renal papillary necrosis.
10. Discuss the mechanisms and stages of stone fragmentation during ESWL.

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Rajiv Gandhi University of Health Sciences

M.Ch Degree Examination – JULY-2019

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 questions

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Describe the organ harvesting techniques in decreased donor transplantation.
2. Enumerate the indications for surgery and the surgical steps in surgery for renal trauma.
3. Describe the methods of optimizing Urodynamic performance in bladder augmentation surgery.
4. Describe techniques for managing multiple arteries during renal transplantation.
5. Describe procedures for reconstruction of the bladder neck.
6. Describe the surgical management of obstructive azoospermia.
7. Discuss physiological changes during laparoscopic urologic surgery.
8. Discuss management of persistent post TURP haematuria.
9. Describe relative benefits and drawbacks of various PCNL techniques.
10. Describe different surgical techniques for ureteric reimplantation.

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Rajiv Gandhi University of Health Sciences

M.Ch Degree Examination – JULY-2019

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 questions

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Discuss treatment strategies for high risk locally advanced prostate cancer.
2. Discuss various endoscopic techniques in evaluation of nonmuscle invasive bladder cancer.
3. Tissue engineering in urology
4. Discuss cryoablation of small renal mass.
5. Discuss targeted therapy in metastatic renal cell carcinoma
6. Neuromodulation
7. Androgen deficiency in aging male
8. Prostalift
9. High grade prostatic intraepithelial neoplasia
10. Dapoxetine

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Rajiv Gandhi University of Health Sciences

M.Ch. Degree Examination – 11-Dec-2019

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 questions.

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Describe the lymphatic drainage of the testes.
2. Describe the mechanism of action and adverse effect profile of Fluoroqinolone antibiotics.
3. Describe the embryology of the male genital organs.
4. Describe the factors regulating renal blood flow.
5. Illustrate the steps in the production of androgens in the body.
6. Classify the congenital anomalies of the kidney.
7. List the non-excretory functions of the kidney and their effects on homeostasis.
8. Write a note on the utility and limitations of Chi-square test with suitable examples.
9. Discuss the applications of flow-cytometry techniques in Urology.
10. Describe the mechanisms of action and drawbacks of different techniques for sterilizing urological surgical instruments.

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Rajiv Gandhi University of Health Sciences

M.Ch. Degree Examination – 13-Dec-2019

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 questions.

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Guy's stone score
2. Discuss etiology, evaluation and management of retroperitoneal fibrosis
3. Distal renal tubular acidosis
4. Management of obstructive azoospermia
5. Discuss pathophysiology of acquired scarring in vesico ureteric reflux
6. Discuss pathophysiology and evaluation of renovascular hypertension
7. Discuss pathology, clinical features and management of neuroblastoma
8. Enumerate sperm retrivel techniques
9. Describe clinical feature, pathology and management of cystic nephroma
10. Discuss classification, etiopathogenisis and current management of emphysematous pyelonephritis.

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Rajiv Gandhi University of Health Sciences

M.Ch. Degree Examination – 16-Dec-2019

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 questions.

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Enumerate organ spring procedures in carcinoma penis with favourable histology
2. Discuss etiology, clinical features, pathology and management of multicystic dysplastic kidney
3. Discuss classification and management of urethral injuries
4. Discuss etiology, elinical feature and management of congital adrenal hyperplasia
5. Describe techniques and complications of transobturator tape for stress urinary incontinence
6. Nephrometry scoring in small renal mass
7. Transobturator block in transurethral resection of bladder tumour
8. Functional evaluation of 5cm adrenal mass in 40 years old lady with uncontrolled hypertension. Add a note on preoperative preparation and intraoperative precautionary measure
9. Metabolic evaluation of stone disease
10. Discuss management options in clinical stage I seminoma testis

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Rajiv Gandhi University of Health Sciences

M.Ch Degree Examination – 18-Dec-2019

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 questions

LONG ESSAY (These questions carry 10 marks each) **10 x 10 = 100 Marks**

1. Describe the different types of bio-materials available for use in urology.
2. Discuss the applications of molecular biology techniques in Urology.
3. Discuss techniques for improving efficacy and reducing adverse effects during radiation therapy for prostate cancer.
4. Discuss recent advances management of Painful Bladder syndrome.
5. Discuss the effects of radiofrequency energy and its applications in urology.
6. Discuss options for managing ureteric obstruction due to extensive pelvic malignancy.
7. Describe options available for managing radiation cystitis.
8. Describe the technology behind surgical robots used in urological applications.
9. Discuss newer bone-protective agents used to reduce fracture risk in urological cancers.
10. Discuss the rationale for the use of PDE-5 inhibitors for treatment of LUTS due to benign prostic enlargement.

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