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MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER I

Monday, July 18, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Your answer should be specific to questions asked.**

✍ **Draw neat labeled diagrams wherever necessary.**

✍ **Long Essays:**

1. Discuss the pathophysiology of Renal tubular acidosis.

(20 marks)

2. Describe the anatomy of renal vasculature. Discuss the management of renovascular hypertension.

(20 marks)

3. **Short Essays:**

3A. HLA antigens.

3B. Post Obstructive diuresis.

3C. Autosomal recessive polycystic kidney disease.

3D. Blood testis barrier.

3E. Evaluation and management of hypercalciuria.

3F. Malakoplakia.

(10 marks for 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER II

Tuesday, July 19, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Your answer should be specific to questions asked.**

✍ **Draw neat labeled diagrams wherever necessary.**

✍ **Long Essays:**

1. Varicocele- Definition, surgical anatomy, histology changes, hormonal changes, investigation and management.

(20 marks)

2. Urology consultation in Obstetrics and Gynaecology for bladder/ureteric injuries: Diagnosis and Management.

(20 marks)

3. **Short Essays:**

3A. Urethrovaginal fistula.

3B. Management of coexisting bladder diverticulum in patient with benign hyperplasia of prostate.

3C. Leak point pressures.

3D. Anatomy and embryology of circumcaval ureter.

3E. Obstructive azoospermia.

3F. PFUDD: End to end Urethroplasty technique.

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER III

Wednesday, July 20, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory.**

✍ **Long Essays:**

1. Active Surveillance in Prostate Cancer. (20 marks)
2. Stage I Testicular Seminoma Management. (20 marks)

3. **Short Essay:**

- 3A. Renal nephrometry
- 3B. Targeted Therapy in RCC.
- 3C. Collateral circulation in IVC thrombosis
- 3D. Fusion Biopsy in Prostate Cancer
- 3E. Paired kidney donation in renal transplant
- 3F. Distal renal tubular acidosis

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER IV

Thursday, July 21, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory.**

✍ **Long Essays:**

1. Recent advances in Ureteral stent designs.

(20 marks)

2. Tissue sealants and bio-adhesives in urology.

(20 marks)

3. **Short Essays:**

3A. Botox in urology

3B. Neoadjuvant chemotherapy for MIBC

3C. PCA3

3D. Prostate cancer screening- Pitfalls

3E. STAMPEDE Trial

3F. Current status of Antibiotics prophylaxis in management of VUR

(10 marks × 6 = 60 marks)

