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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**M.Ch. (UROLOGY) DEGREE EXAMINATION – DECEMBER 2023**

**SUBJECT: PAPER I**

Monday, December 11, 2023

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 metabolic effects of using bowel in the reconstruction of the urinary tract.  
(20 marks)

2. Discuss the theories of causation of GUTB and the pathogenesis, clinical features and management of bladder tuberculosis.  
(20 marks)

3. **Short Essays:**

3A. Gleasons group grading.

3B. Molecular mechanism of Kidney development.

3C. Haematospermia.

3D. Mixed gonadal dysgenesis.

3E. Acquired renal cystic disease.

3F. Bilateral renal agenesis.

(10 marks × 6 = 60 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**M.Ch. (UROLOGY) DEGREE EXAMINATION – DECEMBER 2023**

**SUBJECT: PAPER II**

Tuesday, December 12, 2023

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. Describe the etiology, evaluation and surgical management of male infertility.

(20 marks)

2. Discuss the pathogenesis, evaluation and surgical management of urinary tuberculosis.

(20 marks)

3. **Short Essays:**

3A. Testosterone: Its role in Men's health, reproduction and sexual life.

3B. Botulinum toxin.

3C. Minimally invasive techniques in the management of vesicovaginal fistula.

3D. Management of fracture penis.

3E. Acute renal papillary necrosis.

3F. Inflatable penile prosthesis: Pros and Cons.

(10 marks × 6 = 60 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**M.Ch. (UROLOGY) DEGREE EXAMINATION – DECEMBER 2023**

**SUBJECT: PAPER III**

Wednesday, December 13, 2023

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. Describe diagnosis, staging, Chemotherapy preop and post op, Surgery and prognostic factors of nephroblastoma.

(20 marks)

2. Discuss the evaluation and management of incidentally detected small renal masses.

(20 marks)

3. **Short Essays:**

3A. Tumor suppressor genes.

3B. Palliation of bone pain in metastatic adenocarcinoma of prostate.

3C. Management of teratoma of testis.

3D. Continent urinary diversions.

3E. Valve bladder syndrome.

3F. Ectopic ureterocele.

(10 marks × 6 = 60 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**M.Ch. (UROLOGY) DEGREE EXAMINATION – DECEMBER 2023**

**SUBJECT: PAPER IV**

Thursday, December 14, 2023

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. Current status of cytoreductive nephrectomy in renal cell carcinoma. (20 marks)

2. Describe current status of tissue engineering in Urology. (20 marks)

3. **Short Essays:**

3A. Role of narrow band imaging in Non muscle invasive bladder cancer.

3B. Non-transecting anastamotic urethroplasty.

3C. Transplant hand.

3D. PIRADS.

3E. Ambulatory Urodynamic study.

3F. RIRS: Complications; Its prevention and management.

(10 marks × 6 = 60 marks)

