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## MANIPAL UNIVERSITY

**M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2015**

**SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO UROLOGY**

Tuesday, July 14, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

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

✍ **Long Essays:**

1. Embryology of testicular descent and role of laparoscopy in orchiopexy.

(20 marks)

2. Role of PSA screening and early detection of carcinoma prostate. Merits and demerits of PSA screening based on the published reports.

(20 marks)

3. **Short Essays:**

3A. Sperm retrieval techniques

3B. Detrusor Sphincter Dyssynergia

3C. Bladder management in paraplegia

3D. Anti reflux mechanism

3E. Medullary sponge kidney

3F. Bisphosphonates

(10 marks × 6 = 60 marks)



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## MANIPAL UNIVERSITY

### M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2015

SUBJECT: PAPER II: GENERAL UROLOGY, FEMALE UROLOGY AND ANDROLOGY

Wednesday, July 15, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer should be specific to the questions asked.
- ✍ Draw neat labeled diagrams wherever necessary.

✍ **Long essays:**

1. Discuss the options in the management of localized prostate carcinoma. (20 marks)
2. Discuss the etiology and pathogenesis of Struvite calculus and describe the current management of Stag horn stones. (20 marks)

3. **Short essays:**

- 3A. Management options of angiomyolipoma
- 3B. Pre operative management of Pheochromocytoma
- 3C. Zolendronic acid
- 3D. MAG 3 renogram
- 3E. Retrograde intrarenal surgery
- 3F. MR Urogram

(10 marks × 6 = 60 marks)



**MANIPAL UNIVERSITY****M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER III: OPERATIVE UROLOGY, URO-ONCOLOGY AND PAEDIATRIC UROLOGY**

Thursday, July 16, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **The answer should be specific to the questions asked.**

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

✍ **Long Essays:**

1. Describe the management options in a patient with Azoospermia and how will you counsel the infertile couple?

(20 marks)

2. Describe pathophysiology of PUJ obstruction and how will you assess the salvageability of such kidneys?

(20 marks)

3. **Short Essays:**

3A. Management of post transplant urinary leak

3B. Treatment of over active bladder

3C. Transrectal ultrasound

3D. Incidentally detected adrenal tumors

3E. PCNL complications - management

3F. Role of tumor markers in testicular malignancies

(10 marks × 6 = 60 marks)



**MANIPAL UNIVERSITY****M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER IV: RECENT ADVANCES IN UROLOGY**

Friday, July 17, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **The answer should be specific to the questions asked.**
- ✍ **Draw neat labeled diagrams wherever necessary.**

**✍ Long Essays:**

1. Advances in percutaneous Nephrolithotomy. (20 marks)

2. Advances in surgical management of female stress urinary incontinence. (20 marks)

**3. Short Essays:**

- 3A. Role of varicocele surgery in male infertility
- 3B. Advances in management of testosterone deficiency
- 3C. Pentosan Polysulphate sodium
- 3D. Management of lymph nodes in carcinoma penis
- 3E. Role of angioembolisation in urology
- 3F. Life style recommendation for sexual dysfunction

(10 marks × 6 = 60 marks)

