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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2016 .

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO UROLOGY

Wednesday, July 13, 2016

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. Describe the embryology of posterior urethral valve. Classify them and how will you evaluate and manage the child with posterior urethral valve diagnosed at birth.

(20 marks)

2. Describe the neurovascular anatomy of penis and how will you evaluate a married man with erectile dysfunction.

(20 marks)

✍ **Short Essay:**

3A. Biofilm formation

3B. Retrocaval ureter

3C. Abdominal leak point pressure

3D. Maturation arrest

3E. Post obstructive diuresis

3F. Role of cytology in bladder tumors

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2016

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

Thursday, July 14, 2016

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 management of spinal cord compression with impending paraplegia in a patient with carcinoma prostate.

(20 marks)

2. Describe the continence mechanism in females. Classify SUI and the principles of different surgical options.

(20 marks)

✍ **Short Essay:**

3A. Ectopic ureterocele

3B. Bipolar TURP

3C. Management of BCG failure

3D. Substitution urethroplasty

3E. Hypercalcaemia - management

3F. Indiana Pouch

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER III: OPERATIVE UROLOGY, URO-ONCOLOGY AND PAEDIATRIC UROLOGY

Friday, July 15, 2016

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. Discuss the management of post prostatectomy /post TURP incontinence.

(20 marks)

2. Discuss the management of vesico vaginal fistula due to obstetric causes.

(20 marks)

✍ **Short Essay:**

3A. Antibiotics in G U Tract infections

3B. Live donor evaluation for renal transplant

3C. Principles of ureteric re-implantation

3D. Penile prosthesis - indications, Type and complication

3E. Intracorporeal lithotripters

3F. Renal osteodystrophy

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER IV: RECENT ADVANCES IN UROLOGY

Saturday, July 16, 2016

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. Recent advances in the management of bilateral Wilm's Tumor.

(20 marks)

2. Advances in the use of lasers in Urology.

(20 marks)

✍ **Short Essay:**

3A. Advances in management of Pan Urethral Strictures

3B. Temsirolimus

3C. Role of Chemo prophylaxis in VUR

3D. Mitrafanoff's principle

3E. Hormone refractory prostate cancer

3F. Ureteral access sheath

(10 marks × 6 = 60 marks)

