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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO UROLOGY

Monday, July 10, 2017

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 vascular anatomy of the kidney and its importance in PCNL. (20 marks)

2. Describe the neuro anatomy of bladder and its significance in various types of voiding dysfunctions. (20 marks)

3. **Short Essays:**

- 3A. Gleasons score and its significance
- 3B. Pre natal hydronephrosis
- 3C. Oncogenes
- 3D. Renal perfusion injury
- 3E. Levels of evidence
- 3F. Captopril renogram

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2017

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

Tuesday, July 11, 2017

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. Describe the current diagnostic modalities of GU kacks and management options for contracted bladder.

(20 marks)

2. Indications and technique for nephron sparing surgery.

(20 marks)

3. Short Essays:

3A. Haemospermia

3B. Newer adjuvant therapies in RCC

3C. Electrolyte abnormalities in urinary diversion procedure

3D. Valve bladder syndrome

3E. Renal vein thrombosis

3F. Abiraterone acetate

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2017****SUBJECT: PAPER III: OPERATIVE UROLOGY, URO-ONCOLOGY AND PAEDIATRIC UROLOGY**

Wednesday, July 12, 2017

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. Controversies in the management of PT1 G3 transitional cell carcinoma. (20 marks)
2. Diagnosis, management of primary obstructive megaureter. Mention the different surgical options for ureteric re implantation. (20 marks)

3. Short Essays:

- 3A. Radio frequency ablation for renal tumors
- 3B. Pros and cons of Laparoscopic pyeloplasty
- 3C. Recto urethral fistula - management
- 3D. Bosniaks Type III cyst - management
- 3E. ADAM - androgen deficiency in aging male
- 3F. Calyceal diverticulum

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER IV: RECENT ADVANCES IN UROLOGY

Thursday, July 13, 2017

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 evaluation and management of a newly born male child with sepsis and renal failure. (20 marks)

2. Discuss the advances in the hormonal management of prostate carcinoma. (20 marks)

3. **Short Essays:**

3A. Mechanisms of stone fragmentation with different energy sources

3B. MRI and Ultrasound fusion biopsy of the prostate

3C. Management of antenatally detected hydronephrosis

3D. Role and indications of varicocele surgery in male infertility

3E. Phases of clinical research

3F. Pre mature ejaculation

(10 marks × 6 = 60 marks)

