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MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2020
SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO UROLOGY

Wednesday, July 01, 2020

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. Discuss basic principles, indications, complications and current status of use in intestinal segments in the urinary tract.
(20 marks)

2. Discuss continence mechanism in Females. Classify SUI and principles of different surgical options.
(20 marks)

✍ **Short Essay:**

- 3A. Current status of testicular biopsy in male infertility
- 3B. Lymph node surgery in management of carcinoma penis
- 3C. Narrow band imaging in Urology - Principles and indications
- 3D. Anti reflux mechanism
- 3E. Intensity Modulated Radiotherapy
- 3F. Abirateronene

(10 marks × 6 = 60 marks)



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M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2020

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

Thursday, July 02, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ **ALL questions are compulsory.**

☞ **Long Essays:**

1. Early management of Pelvic fracture associated urethral injury.

(20 marks)

2. Anterior colporrhaphy for central defect of anterior vaginal prolapse.

(20 marks)

3. **Short Essays:**

3A. PDE- 5 Inhibitors

3B. Acute Pyelonephritis in pregnancy – Evaluation and Management

3C. Acute renal papillary necrosis

3D. MIRABEGRON

3E. Complications of ESWL

3F. Biomarkers in Overactive bladder

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2020

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

Friday, July 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✗ **ALL questions are compulsory.**

✗ **Long Essays:**

1. Bladder dysfunction and its management in Posterior Urethral valve.

(20 marks)

2. Approach to a child with ambiguous genitalia.

(20 marks)

3. **Short Essays:**

3A. Post natal management of antenatally detected unilateral hydronephrosis.

3B. Blood supply of ureter and its surgical importance

3C. PADUA scoring for renal masses

3D. PSMA – PET CT for Prostate Cancer

3E. Types of Ureterocolonic anastomosis

3F. CHAARTED TRIAL

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2020
SUBJECT: PAPER IV: RECENT ADVANCES IN UROLOGY

Saturday, July 04, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **ALL questions are compulsory.**

✍ **Long Essays:**

1. Outlaw mechanism of development of resistance to androgen resistance. (20 marks)

2. Abbreviated metabolic evaluation for renal stone former. (20 marks)

3. **Short Essays:**

3A. Laser Settings during RIRS for breaking, dusting and popcorn effect

3B. Differences for fibre optic and digital flexible URS

3C. Risk factors for recovery of continence post radical nephrectomy

3D. Systemic health effects of testosterone deficiency in males

3E. PSMA PET scan

3F. Tissue engineering in Urology

(10 marks × 6 = 60 marks)

