

MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2018
SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO UROLOGY

Monday, July 09, 2018

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

2. Discuss the embryology and vascular anatomy of horseshoe kidney in the management of stones.
(20 marks)

3. Short Essay:

3A. Gleasons score and its significance

3B. Maturation arrest

3C. MR Urogram

3D. Autonomic Dysreflexia

3E. Substitution urethroplasty

3F. Sunitinib

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2018****SUBJECT: PAPER II: GENERAL UROLOGY, FEMALE UROLOGY AND ANDROLOGY**

Tuesday, July 10, 2018

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 evaluation and management of renovascular hypertension.

(20 marks)

2. Evaluation and management of a one year old child with Bilateral grade III vesico ureteral reflux.

(20 marks)

✍ **Short Essay:**

3A. Bladder preserving protocols in Ca. bladder

3B. Penile implants

3C. Painful Bladder Syndrome

3D. Acute Renal Papillary Necrosis

3E. Cutaneous continent urinary diversion

3F. Sperm retrieval techniques

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2018

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

Wednesday, July 11, 2018

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 urological management of patient with injury spinal above T12 vertebrae.
(20 marks)
2. Etiology and classification of urethral stricture disease and principles of buccal mucosal graft urethroplasty.
(20 marks)

3. Short Essay:

- 3A. Failed pyeloplasty
- 3B. Role of Urodynamics in evaluation of incontinence
- 3C. Paraneoplastic syndromes in RCC
- 3D. Urachal carcinoma
- 3E. Surveillance in early testicular tumors
- 3F. Dietary modifications for stone formers

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (UROLOGY) DEGREE EXAMINATION – JULY 2018
SUBJECT: PAPER IV: RECENT ADVANCES IN UROLOGY

Thursday, July 12, 2018

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 Urinary tract reconstruction in GUTB and newer diagnostic modalities in GU tuberculosis.

(20 marks)

2. Discuss the management of biochemical failure after radical prostatectomy in a 65 year old male.

(20 marks)

✍ **Short Essay:**

3A. m TOR inhibitors

3B. Minipercutaneous renal access

3C. Tissue engineering in urology

3D. Radiation hazards in urology

3E. Renal exploration in trauma

3F. Non-neurogenic neurogenic bladder

(10 marks × 6 = 60 marks)

