

POST-DOCTORAL DEGREE EXAMINATION – AUGUST 2021
M.Ch. UROLOGY

Time: 3 Hours

Max. Marks: 100

PAPER – I
Basic Sciences as applied to Urology

Q.P. Code: 1509

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Neural control of lower urinary tract and its role in voiding dysfunction.
2. Pathophysiology of Genitourinary tuberculosis (GUTB) and a layout of the various stages of renal tuberculosis.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Renin-Angiotensin-Aldosterone system.
4. Cell-cell interactions in nephrogenesis.
5. Molecular basis of sexual dimorphism in genital development.
6. Pelvic supports in female and their relevance in continence mechanism.
7. a) Ask –upmark kidney
b) Bladder bowel dysfunction
8. Pathophysiology of congenital obstructive nephropathy.

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PAPER – II
Principles and Practice of Urology

Q.P. Code: 1510

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss pathophysiology of ischemic nephropathy.
2. Discuss liquid biopsy techniques in genitourinary cancers.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Lymph node management in carcinoma penis.
4. Pathophysiology of priapism and management of ischemic priapism.
5. Mechanism of resistance to Taxanes in Castration – Resistant Prostate Cancer (CRPC).
6. a) Spastic neuropathic bladder.
b) Spinal shock
7. Ureteroscopic injuries and their managements.
8. Enhanced cystoscopic techniques and their utility in bladder cancer.

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PAPER – III
Specialty Urology

Q.P. Code: 1511

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Flaps and its basis in genital reconstruction.
2. Hypothalamic-pituitary-adrenocortical relations in various adrenocortical syndromes.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Hormonal and non-hormonal methods of contraception in males.
4. a) Immotile Cilia syndromes.
b) Disorders of Coitus.
5. Unconsummated marriage and its legal implications.
6. Neurotransmitters and pharmacology of erection.
7. Indications and utility of pre transplant native nephrectomy.
8. a) Newer immunosuppressive agents.
b) Cross match techniques.

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PAPER – IV

Operative Urology and Recent Advances in Urology

Q.P. Code: 1512

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Diagnosis and interventions in hypogonadism.
2. Moses technology and its application in urology.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Management of refractory Overactive Bladder (OAB).
4. Concepts of aqua ablation and its applications in urology.
5. Pros and cons of Endoscopic Combined Intrarenal Surgery (ECIRS).
6. Management of high risk neurologic lower urinary tract dysfunction.
7. Multi drug resistant urinary tract infection.
8. Genitourinary implications of COVID 19.
