

**GENITOURINARY SURGERY (UROLOGY)**

PAPER – I

GUS/J/16/13/I

Time : 3 hours

Max. Marks : 100

**Important instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Hemodynamics and mechanism of penile erection. (3+3)+4  
b) Management of erectile dysfunction after radical prostatectomy.
2. a) Define ischaemic nephropathy. 2+(4+4)  
b) Pathophysiology and management of ischaemic nephropathy.
3. Explain the concepts of blinding, allocation concealment and randomization in clinical trials. 3+3+4
4. a) Anatomical changes in urinary tract in pregnancy. 4+6  
b) Management of unilateral upper ureteric calculus in first trimester of pregnancy.
5. Metabolic and physiologic effects of pneumoperitoneum in laparoscopy. 5+5
6. a) What are the inhibitors and promoters of crystal formation in urinary tract? (3+3)+4  
b) How will you investigate a case of recurrent stone former?
7. a) Define hyponatraemia. 1+(2+3+4)  
b) Various types, clinical manifestations and treatment of hyponatraemia.
8. a) What are the indications of biopsy of renal mass? 3+3+4  
b) What is the sensitivity and specificity of a renal mass biopsy?  
c) What do the terms specificity and sensitivity mean?
9. a) Role of molecular markers in detection of prostate cancer. 5+5  
b) How do these markers differ from PSA in cancer detection?
10. Virtual reality and augmented reality as used in surgical navigation. 5+5

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