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. Various optical imaging techniques in high grade bladder cancer.  
   10  
2. Surgical anatomy of the adrenal glands and clinical indications for adrenalectomy.  
   5+5  
3. Surgical anatomy of the prostate gland as relevant to open radical prostatectomy.  
   10  
4. Pre-ureteral venacava:  
   a) Anatomy.  
   b) Embrology.  
   c) Clinical presentation.  
   d) Indications for intervention.  
   3+3+2+2  
5. Various modes of ultrasound as are applicable to the urological practice.  
   10  
6. Intrinsic and extrinsic apoptotic pathways.  
   5+5  
7. Salient features of the flank and anterior approaches to the kidney.  
   5+5  
8. Renal tubular acidosis:  
   a) Tabular overview of types.  
   b) Principles of management.  
   6+4  
9. What is Bacterial resistance? How is it mediated?  
   10  
10. Mention the surgical and medical causes of Proteinuria? How would you evaluate a case of proteinuria?  
   5+5  

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