1. a) Define angiogenesis. 
   b) What are the activators and inhibitors of tumour angiogenesis? 1+(4+5)

2. a) What is multiparametric MRI? 
   b) What are its indications in Urology? 4+6

3. a) What is tissue engineering? 
   b) Various types of biomaterial for genitourinary tissue engineering and their limitations. 2+(5+3)

4. a) Enlist the tumour markers in TCC urinary bladder. 
   b) Advantages and disadvantages in using them for surveillance. 2+(4+4)

5. a) What are check point inhibitors? 
   b) Current status of Immunotherapy in renal cell carcinoma. 3+7

6. a) What is da Vinci Robot Surgical System? 
   b) Write in brief the main components of Robot Surgical System. 
   c) Current status of da Vinci Robot in Urology. 2+4+4

7. a) Define three dimensional ultrasound. 
   b) Role, advantages and limitations of three dimensional USG in relation to Urology. 2+(3+3+2)

8. What is Mirabegron? Discuss its pharmacotherapeutics. 2+8

   b) Enumerate its different components. 
   c) Techniques of flexible uretero-renoscopy. 2+3+5

10. a) Define Stress Urinary Incontinence (SUI). 
    b) List the surgical management for SUI. 
    c) Future of injectables for SUI. 2+3+5

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