

GENITOURINARY SURGERY (UROLOGY)

PAPER – III

GUS/J/16/13/III

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) Define angiogenesis. 1+(4+5)
b) What are the activators and inhibitors of tumour angiogenesis?
2. a) What is multiparametric MRI? 4+6
b) What are its indications in Urology?
3. a) What is tissue engineering? 2+(5+3)
b) Various types of biomaterial for genitourinary tissue engineering and their limitations.
4. a) Enlist the tumour markers in TCC urinary bladder. 2+(4+4)
b) Advantages and disadvantages in using them for surveillance.
5. a) What are check point inhibitors? 3+7
b) Current status of Immunotherapy in renal cell carcinoma.
6. a) What is da Vinci Robot Surgical System? 2+4+4
b) Write in brief the main components of Robot Surgical System.
c) Current status of da Vinci Robot in Urology.
7. a) Define three dimensional ultrasound. 2+(3+3+2)
b) Role, advantages and limitations of three dimensional USG in relation to Urology.
8. What is Mirabegron? Discuss its pharmacotherapeutics. 2+8
9. a) Define digital flexible uretero-roscope. 2+3+5
b) Enumerate its different components.
c) Techniques of flexible uretero-roscopy.
10. a) Define Stress Urinary Incontinence (SUI). 2+3+5
b) List the surgical management for SUI.
c) Future of injectables for SUI.
