

**SURGICAL ONCOLOGY**

PAPER – III

SURG.ONCO/J/16/47/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. Peritoneal surface malignancies: 5+5
  - a) Give examples and current concepts of pathophysiology and mechanism of spread.
  - b) Recent advances in its management.
2. Sentinel lymph node biopsy (SLNB): 4+3+3
  - a) Histopathology protocol and molecular diagnostic methods.
  - b) Non-radioisotope based SLNB techniques.
  - c) Role of SLNB in penile cancer management
3. a) Rationale and types of Intra-operative radiotherapy (IORT). 5+5  
b) Role of IORT in breast cancer management.
4. Cancer prevention: 5+5
  - a) Risk reducing surgery.
  - b) Lifestyle factors
5. Genetic counseling for cancer: 5+5
  - a) Rationale and components of genetic counseling.
  - b) Treatment options for BRCA1 positive daughters of a familial breast cancer patient.
6. Recent advances in breast cancer imaging: 3+3+4
  - a) Tomosynthesis.
  - b) Elastography.
  - c) Pros & cons of MRI breast.
7. Immunotherapy for cancer: 3+3+4
  - a) Dendritic cell therapy.
  - b) Immunotherapy for melanoma.
  - c) Radio-immunoguided surgery.

**P.T.O.**

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8. Energy sources in Surgical Oncology: 3+3+4  
a) Ultrasonic energy  
b) Cryotherapy  
c) Radio-frequency ablation
9. Recent advances in Radiation-oncology: 3+3+4  
a) Proton Beam therapy  
b) TARGIT trial  
c) Intensity Modulated Radiotherapy (IMRT).
10. Hormonal therapy for breast cancer: 5+5  
a) Ovarian suppression  
b) Aromatase inhibitors

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