Write short notes on:

1. Peritoneal surface malignancies:
   a) Give examples and current concepts of pathophysiology and mechanism of spread.
   b) Recent advances in its management.

2. Sentinel lymph node biopsy (SLNB):
   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).
    b) Role of IORT in breast cancer management.

4. Cancer prevention:
   a) Risk reducing surgery.
   b) Lifestyle factors

5. Genetic counseling for cancer:
   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:
   a) Tomosynthesis.
   b) Elastography.
   c) Pros & cons of MRI breast.

7. Immunotherapy for cancer:
   a) Dendritic cell therapy.
   b) Immunotherapy for melanoma.
   c) Radio-immunoguided surgery.

P.T.O.
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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