



होमी भाभा राष्ट्रीय संस्थान
Homi Bhabha National Institute

(Tata Memorial Centre)

Dr. Ernest Borges Marg, Parel Mumbai – 400 012

Theory Examination – M.Ch Surgical Oncology

May – June 2014

Paper I

Paper – I (Thoracic Oncology, Breast Oncology)

Answer 10 out of the 12 questions

Write short notes on:

1. Low dose CT scan in screening of lung cancer
2. Mediastinal staging in non-small cell lung cancer
3. Role of extended adjuvant hormonal therapy in breast cancer
4. Statistical models of risk prediction in breast cancer and their clinical implications
5. Role of minimally invasive/ VATS (video assisted thoracoscopic surgery) esophagectomy for esophageal cancer
6. Management of Paget's disease of breast
7. Role of APBI (accelerated partial breast irradiation) in breast cancer
8. Parenchyma preserving surgery in lung cancer
9. Role of neoadjuvant strategies in operable esophageal cancer
10. Management of Barrett's esophagus
11. Reconstructive options following mastectomy for breast cancer with special reference to the principles of DIEP flap
12. Discuss the various agents used in pleurodesis



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Paper II

Answer 10 out of the 12 questions

Write short notes on:

1. Assessment of histologic response in osteosarcoma following neoadjuvant chemotherapy
2. Surgical classification of shoulder resection
3. Molecular genetic basis of Ewing's sarcoma family of tumors
4. Discuss the evidences supporting adjuvant chemotherapy in extremity soft tissue sarcomas
5. Staging systems and prognostic factors associated with retinoblastoma
6. Role of neoadjuvant chemotherapy in gastric cancer
7. Association of microsatellite instability and colorectal cancer
8. Management of borderline resectable pancreatic cancer
9. Rationale and principles of extralevator APR (abdominoperineal resection) in low rectal cancer
10. Role of trans-arterial radioembolization in the management of hepatocellular carcinoma
11. Define early gastric cancer. Discuss the various options in the management of early gastric cancer.
12. Management of anal melanoma



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Paper III

Paper – III (Head & Neck Oncology, Plastic & Reconstructive Surgery, Neuro Oncology)

Answer 10 out of the 12 questions

Write short notes on:

- 1. Evolving role of molecular assessment of surgical margins in resection of oral cancer**
- 2. Assessment of carotid artery in the evaluation of a patient for craniofacial resection**
- 3. Discuss the genetic basis and phenotypic changes associated with field cancerization in head and neck cancers**
- 4. Facial animation procedures**
- 5. Emerging role of induction chemotherapy in the management of head and neck squamous cell carcinoma**
- 6. Discuss the various options and current status of conservative laryngeal surgeries**
- 7. Indications and technique of temporal bone resection**
- 8. Discuss the classification and principles of reconstruction of maxillary defects following maxillectomy**
- 9. Management of N0 neck in oral cancer**
- 10. Risk-stratification systems and their implications in thyroid cancers**
- 11. Discuss the types and role of marginal mandibulectomy in the management of oral cancer**
- 12. Reconstructive options of surgical defects after resection of cancer of lip**



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Paper IV

Answer 10 out of the 12 questions

Write short notes on:

1. Elaborate on the basis and clinical relevance of the concepts of “levels of evidence” and “grades of recommendations” in the practice of oncology
2. Discuss the different types of “bias” in biostatistics, in the context of oncology
3. Predisposing genetic risk factors for epithelial ovarian cancer
4. Management of castration-resistant prostate cancer
5. Discuss about the use of visual inspection as a screening modality for cervical cancer
6. Role of intravesical therapy in the management of superficial bladder cancer
7. Mechanism of action and the clinical role of tyrosine kinase inhibitors (TKIs) in the management of metastatic renal cell carcinoma
8. Management of borderline ovarian tumors
9. Discuss the issue of fertility preservation in the management of gynaecologic cancers
10. Elaborate on the indications, technique and complications of orthotopic neobladder
11. Sentinel lymph node biopsy in the management of penile cancer
12. Discuss the management of isolated central recurrence after definitive chemoradiotherapy for stage IIB cervical cancer