



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  
NOVEMBER – DECEMBER 2013

Paper IV

Paper IV- Recent Advances in Oncology

Duration 3 Hours

Total Marks: 100

Instructions:

- 1 Use Blue/Black pen only.
- 2 Do not write anything on the blank portion of the question paper. If written anything such type of act will be considered as an attempt to resort to unfair means.
- 3 Answer 10 of the 12 short note questions.
- 4 Each question carries 10 marks.
- 5 Draw diagram wherever necessary.

- 1 The role and evidence for adjuvant treatment in Gastro Intestinal Stromal Tumours-GIST.
- 2 Recent advances in intraoperative treatment in ovarian cancer.
- 3 Discuss the principles and use of virtual colonoscopy.
- 4 Discuss the advances in management of post mastectomy lymphedema.
- 5 Prophylactic thyroidectomy.
6. Oncotype Dx.
- 7 Targeted therapy in breast cancer.
- 8 Accelerated partial breast irradiation.
- 9 Radiological staging tools in rectal cancers.
- 10 Principles of radiofrequency (RF) ablation.
- 11 Cervical cancer vaccine.
- 12 National Cancer Control Program (NCCP) in India.



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**Paper III**

Paper III- Clinical Practice of Surgical Oncology

Duration 3 Hours

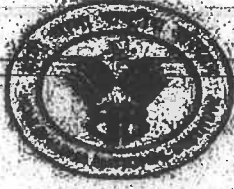
Total Marks: 100

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- 1 Discuss the evaluation and management of an adrenal incidentaloma.
- 2 Discuss the classification and management of tracheostomal stenosis.
- 3 Classification and management of vaginal intraepithelial neoplasia.
- 4 Discuss the evaluation and management of mediastinal seminomas.
- 5 Central compartment neck dissection.
- 6 Marginal assessment in breast conservation surgery.
- 7 Current status and techniques of sentinel lymph node biopsy in breast cancer.
- 8 Indications and surgical principles of peritonectomy.
- 9 Segmental anatomy of liver, and techniques of liver resection.
- 10 Advantages and disadvantages of staplers in surgery.
- 11 Assessment of mandible, indications and contraindications of marginal mandibulectomy.
- 12 Indications and types of autologous total breast reconstruction.





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**Paper II**

Paper II- Principles of Oncology

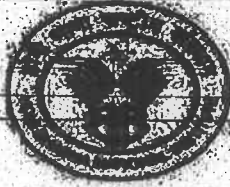
Duration 3 Hours

Total Marks: 100

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- 3 Answer 10 of the 12 short note questions.
- 4 Each question carries 10 marks.
- 5 Draw diagram wherever necessary.

- 1 Role of laparoscopy in staging of cancers.
- 2 Biological basis of fractional in radiotherapy.
- 3 The technique and effects of Pringle maneuver in hepatic resections.
- 4 Rationale of Neo adjuvant chemotherapy (NACT) in breast cancer.
- 5 Current management of squamous cell anal cancer.
- 6 Adjuvant chemo-radiation in Head & Neck cancers.
- 7 Status of neo-adjuvant chemotherapy in ovarian cancer.
- 8 Principles of cancer pain management.
- 9 Screening modalities for cancer breast.
- 10 Neo adjuvant hormonal therapy.
- 11 Genetic counseling.
- 12 Brachytherapy in cervical cancer.



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Paper I

Paper I - Basic Sciences

Duration : Hours

Total Marks: 100

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- 3 Answer 10 of the 12 short note questions.
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- 1 Describe the current status, mode of action and clinical application of Lapatinib.
- 2 Relationship of dietary fiber to etiology of cancer.
- 3 Cancer susceptibility syndromes.
- 4 Hepatitis C virus and etiology of hepato cellular carcinoma.
- 5 Inherited colorectal cancer syndromes.
- 6 Angiogenesis.
- 7 Microarray.
- 8 Immunotherapy.
- 9 Oncogenes.
- 10 Vascular endothelial growth factor (VEGF).
- 11 Immunohistochemistry (IHC) in sarcoma diagnosis.
- 12 FISH.