

APRIL - 2001

[KD 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch VII — Surgical Oncology

(Revised Regulations)

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

1. Define the role of ILP (Isolated Limbs Perfusion) and surgery in management of melanoma of extremities. (25)
2. Describe Limb conservative surgical procedures in Soft Tissue Sarcomas. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Peyromie's disease
 - (b) Plasma cell neoplasm
 - (c) Photo dynamic therapy
 - (d) Porama
 - (e) Paget's disease.

NOVEMBER - 2001

[KE 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Define Proximal Gastric Cancers. Give a classification for them. Discuss the surgical management (25)

2. Discuss the limb salvage management of malignant Bone Tumors under following headings :

- (a) Biopsy
- (b) Radiological investigations
- (c) Extendable prosthesis
- (d) Neo adjuvant – chemotherapy
- (e) Rehabilitation.

(25)

3 Write short notes on

- (a) Autologous Bone Marrow Transplant
 - (b) Naproxen sodium
 - (c) Cancer Related Alopecia
 - (d) Re-irradiation
 - (e) Complications of Retroperitoneal lymphadenectomy.
- (5 × 10 = 50)

MARCH - 2002

[KG 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Immunotherapy for cancer. (25)
2. Treatment of Sarcoma Right Deltoid. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Laparoscopy.
 - (b) Fibroadenoma.
 - (c) FNAC.
 - (d) Cancer Cachexia.
 - (e) Solitary metastatic nodule right lobe of liver.

SEPTEMBER - 2002

[KH 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

Branch VII — Surgical Oncology

(Revised Regulations)

**Paper IV — RECENT ADVANCED IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Rapid access Breast clinic. (25)
 2. Treatment of renal cell carcinoma. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Laser treatment for cancer
 - (b) Immune deficiency states in cancer patients
 - (c) Role of cancer support groups
 - (d) MRI in cancer
 - (e) Peritoneoscopy for management of cancer liver.
-

APRIL - 2004

[KK 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty
minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

A. Essay :

(2 × 15 = 30)

(1) Discuss gene therapy for cancer.

(2) Discuss the role of vaccines in cancer
prevention and treatment.

B. Short notes :

(10 × 5 = 50)

(1) Image guided surgery.

(2) Proton beam therapy.

(3) Minimal Residual Cancer.

(4) Radio immuno guided surgery.

(5) Endoscopic ultrasound.

(6) Nonsteroidal anti inflammatory drugs for
cancer prevention.

(7) Monoclonal antibodies for cancer therapy.

(8) Differentiation therapy.

(9) Anti angiogenic agents.

(10) Fish.

AUGUST - 2004

[KL 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(2 × 15 = 30)

(1) Discuss the management of prostate cancer with respect to Surgery Versus Radiotherapy in today's perspective.

(2) How will you set up the tumor Registry? Discuss its role in India.

II. Write short notes on :

(10 × 5 = 50)

- (a) Cell death by suicide.
- (b) DNA Repair mechanisms.
- (c) Oxaliplatin.
- (d) Rituximab.
- (e) Ethical issues in clinical trials.
- (f) Cancer diagnosis and denial.
- (g) Postoperative Adhesion Prevention in laprotomy.
- (h) Multiple Organ Dysfunction Syndrome (MODS).
- (i) HER-2 nev.
- (j) Merkel cell carcinoma.

FEBRUARY - 2005

[KM 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(2 × 15 = 30)

**(1) Describe the current status of organ
transplantation in cancer.**

**(2) Diagnosis and management of intraepithelial
neoplasia of uterine cervix.**

II. Short notes :

(10 × 5 = 50)

- (a) Photodynamic therapy.**
 - (b) Thyrosine Kinase inhibitors.**
 - (c) TRAM Flap.**
 - (d) Chondroma.**
 - (e) Primary peritoneal carcinoma**
 - (f) Staging Laparotomy for Hodgkin's Disease.**
 - (g) Partial Nephrectomy.**
 - (h) Pancreatic cystadenocarcinoma**
 - (i) Endoscopic spectroscopy**
 - (j) Immunohistochemistry in the diagnosis of
cancer.**
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FEBRUARY - 2006

[KO 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

(2 × 15 = 30)

(1) Define Cellular Immunity. Role of specialised antigen – presenting cells in cancer. Advantages of non specific cytotoxic cells.

(2) Describe the recent developments in the endocrine therapy of early breast cancer.

II. Short notes :

(10 × 5 = 50)

- (a) Intra operative ultrasound in cancer surgery**
- (b) PET scan in oncology**
- (c) Serum calcitonin as tumor marker**
- (d) Brachytherapy**
- (e) Second look laparotomy**
- (f) Screening for colorectal cancer**
- (g) Staplers in cancer surgery**
- (h) Role of three field Lymphadenectomy in oesophageal cancer**
- (i) Management of pseudomyxoma peritonei**
- (j) Technique of Frozen section and its advantages and disadvantages.**

AUGUST - 2006

[KP 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

1. Discuss the role of laparoscopy in hepatobiliary and pancreatic cancers. (20)
2. Recognition and significance of cancer cells in circulation. (15)
3. Discuss the management of pseudomyxoma peritonei. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Transanal endoscopic microsurgery
 - (b) Port site metastasis
 - (c) Role of lymphadenectomy in ovarian cancer
 - (d) Fast track surgery in surgical oncology
 - (e) Prophylactic oophorectomy
 - (f) Total mesorectal excision.
-

FEBRUARY - 2007

[KQ 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay Questions :

1. Describe the clinical and pathological characteristics of the primary germ cell tumors of the mediastinum and their management. (20)

2. Classify the metastatic disease of liver. Describe the diagnosis and management of hepatic metastases. Role of RFA in hepatic metastases. (Radio Frequency Ablation). (15)

3. Define the risk factors of secondary cancers and their management. (15)

II. Short notes : (6 × 5 = 30)

1. Endo sonography in GI cancers.

2. Hereditary diffuse Gastric cancer syndrome.

3. Diagnosis and management of Gastro Intestinal stromal tumors.

4. Intensity Modulated Radio Therapy (IMRT).

5. Intra vesical therapy of bladder cancer.

6. Granulocyte colony stimulating factor in cancer treatment.

August-2007

[KR 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay Questions :

1. Discuss neoplasms in acquired immunodeficiency syndrome and their management. (20)
2. Discuss hormonal management of breast cancer in pre and post menopausal women. (15)
3. Discuss about minimally invasive surgery in Cancer. What are the advantages and disadvantages of minimally invasive surgery in cancer? (15)

II. Write short notes on :

(6 × 5 = 30)

- (a) Discuss total mesorectal excision in rectal cancer.
- (b) Write on LASERS in cancer.
- (c) Classification and staging of neuroblastoma.
- (d) Monoclonal antibodies in cancer management.
- (e) Discuss on moori's law in oncologic informatics.
- (f) Isolated Limb Perfusion in Melanoma of extremities.

[KS 059]

Sub. Code : 1804

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Surgical Oncology

**Paper IV — RECENT ADVANCES IN SURGICAL
ONCOLOGY**

Q.P. Code : 181804

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay questions :

**1. Discuss the present status and use of Minimally
Invasive Surgery in Oncology. (20)**

**2. Discuss the management of a middle aged woman
presenting with malignant ascites. (20)**

II. Short notes : (10 × 6 = 60)

(1) Proteonomics

(2) Chromoendoscopy

(3) PET scan

**(4) Management of Hormone Refractory Prostate
Cancer**

(5) Tissue expanders in Malignancy

(6) Immunotoxins

(7) Discuss on Mooris law in Cancer informatics

(8) Uterine sarcomas

(9) Radiofrequency ablation in Cancer

**(10) Management of Superior Vena Cava
Syndrome.**

August 2008

[KT 059]

Sub. Code: 1804

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VII – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays: (2 x 20 = 40)

1. Discuss the role of surgery in cancer prevention.
2. Discuss the current trends in optimization of colorectal surgery.

II. Write short notes on: (10 x 6 = 60)

1. IGRT.
 2. Intra-operative radiotherapy.
 3. Biologic therapy in breast cancer.
 4. Pitfalls in meta analysis.
 5. Recent trends in management of cancer pain.
 6. Male sexual dysfunction after cancer treatment.
 7. Gene therapy.
 8. Marginal mandibulectomy.
 9. Management of liver metastasis.
 10. Abdominal compartment syndrome.
-

February 2009

[KU 059]

Sub. Code: 1804

**M.Ch. DEGREE EXAMINATIONS
(Higher Specialities)
(Revised Regulations)**

**Branch VII – Surgical Oncology
Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY
Q.P. Code: 181804**

Time: Three hours

Maximum: 100 Marks

**ANSWER ALL QUESTIONS
Draw suitable diagrams wherever necessary.**

I. Essays:

2 x 20 = 40 Marks

1. Describe the classification and staging of Oesophageal cancer. Indications for neoadjuvant treatment and mention types of surgical procedures done for operable lesions.
2. Discuss classification, staging and management of Testicular tumors.

II. Write short notes on:

10 X 6 = 60 Marks

1. Management of superior vena caval syndrome.
2. Role of sialastic implants in cancer.
3. Psychological disorders in cancer patients.
4. Carcinoid management.
5. Discuss on Radioactive gold seeds in cancer treatment.
6. Discuss Paraneoplastic syndrome.
7. Treatment of chordoma.
8. MEN IIb.
9. Role of retinoids in cancer.
10. Acute and long term complications of Radiation therapy and how do you prevent Radiation toxicity?

August 2009

[KV 059]

Sub. Code: 1804

**M.Ch. DEGREE EXAMINATIONS
(Super Specialities)
(Revised Regulations)**

**Branch VII – Surgical Oncology
Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY
Q.P. Code: 181804**

Time: Three hours

Maximum: 100 Marks

**ANSWER ALL QUESTIONS
Draw suitable diagrams wherever necessary.**

I. Essays:

2 x 20 = 40 Marks

1. Discuss current evidence in the management of axilla in clinically node negative breast cancer.
2. Discuss recent advances in radiation therapy techniques and approaches.

II. Write short notes on: 10 X 6 = 60 Marks

1. RADPLAT regime in head neck cancer.
2. Sphincter preservation in rectal cancer.
3. Cutaneous melanoma.
4. Pathophysiology and management of chronic cancer pain.
5. Video assisted thoracoscopic surgery (VATS).
6. Role of sentinel node biopsy in head neck cancers.
7. Cervical cancer vaccine.
8. Herceptin (Trastuzumab).
9. Discuss instruments used in quality of life analysis in laryngeal cancer.
10. Radio frequency ablation.

February 2010

[KW 059]

Sub. Code: 1804

M.Ch. DEGREE EXAMINATIONS

**(Super Specialities)
(Revised Regulations)**

**Branch VII – Surgical Oncology
(Common to all candidates)**

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss the management of a 40 year old man presenting with Jaundice of one month's duration.
2. Classify bone tumours and discuss the management of a 18 year old girl presenting with a tumour lower end of femur (including the chemotherapy regimens/ schedules used and the various types of prosthesis available / used).

II. Write short notes on:

10 X 6 = 60 Marks

1. DNA micro-array.
2. Uterine sarcomas.
3. Hormonal management of prostate cancer.
4. Management of a 45 year old man presenting with a poorly differentiated malignant tumour mass, in a cervical lymph node mass (CUP).
5. Concurrent chemoradiotherapy.
6. Cancer vaccines.
7. Sentinel node biopsy.
8. Voice conservation / restoration in laryngeal cancer.
9. Use of Monoclonal antibodies in treatment of cancer.
10. Chemoprevention.

February 2011

[KY 059]

Sub. Code: 1804

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch VII – SURGICAL ONCOLOGY

(Revised Regulations)

Common to all candidates

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. What is Genetic counselling? Discuss the hereditary cancer syndromes.
2. Discuss the role of Endoscopy in the management of Cancer.

II. Write short notes on:

(10 x 6 = 60)

1. Retinoids.
2. Trans arterial chemo embolization.
3. Supraglottic laryngectomy.
4. Small cell lung cancer.
5. Barret's Oesophagus.
6. Stenting in oesophageal cancers.
7. Hepatoblastoma.
8. Hereditary colorectal cancer.
9. Meso rectal excision.
10. Van-Hippel's Lindau's Disease.

August 2011

[KZ 059]

Sub. Code: 1804

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH VII – SURGICAL ONCOLOGY

RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code:181804

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

1. Discuss the pathology and management of Tumours of the mandible.
2. Discuss the current status of PET scan in Oncological practice.

11	35	15
11	35	15

II. Write notes on :

- | | | | |
|-------------------------------------|---|----|---|
| 1. MALT Lymphoma. | 4 | 10 | 7 |
| 2. Hairy cell Leukemia. | 4 | 10 | 7 |
| 3. Magnetic Resonance Spectroscopy. | 4 | 10 | 7 |
| 4. Chordoma. | 4 | 10 | 7 |
| 5. Retinoblastoma. | 4 | 10 | 7 |
| 6. H. pylori and Cancer. | 4 | 10 | 7 |
| 7. Microarray. | 4 | 10 | 7 |
| 8. Indiana Pouch. | 4 | 10 | 7 |
| 9. Neutron Beam therapy. | 4 | 10 | 7 |
| 10. VATS. | 4 | 10 | 7 |

[LA 059]

Februray 2012

Sub. Code: 1804

MASTER OF CHIRURGIAE (M.CH) DEGREE EXAMINATION

(SUPER SPECIALITIES)

BRANCH VII – SURGICAL ONCOLOGY

RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss the role of Metastatectomy in Cancer.	16	35	15
2. Discuss the various methods of preparing for Liver resections.	16	35	15

II. Write notes on :

1. Vannes Rotationplasty.	4	10	7
2. Mammoprint.	4	10	7
3. Role of surgery in Wilm's Tumour.	4	10	7
4. Molecular classification of Breast Cancer.	4	10	7
5. Management of triple negative Breast Caner.	4	10	7
6. Molecular targeted therapies.	4	10	7
7. PDT.	4	10	7
8. Accelerated Partial Breast Radiation.	4	10	7
9. Paraganglionoma.	4	10	7
10. Temporal bone resections.	4	10	7

[LB 059]

AUGUST 2012

Sub. Code: 1804

M.Ch – SURGICAL ONCOLOGY

Paper – IV RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|----|----|
| 1. Discuss the etiology, pathophysiology, evaluation and management of Venous thromboembolism in cancer. | 16 | 35 | 15 |
| 2. Describe the principles and clinical application of Radiofrequency ablation in various cancers. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Discuss the diagnosis work up of a patient with Multiple Endocrine Neoplasia 1. | 4 | 10 | 7 |
| 2. Describe the advantages and limitations of Capsule endoscopy. | 4 | 10 | 7 |
| 3. Discuss the scope and advantages of Video Assisted Thoracic Surgery (VATS). | 4 | 10 | 7 |
| 4. Discuss the indications and future potential for HPV vaccination as a mode of cancer prevention. | 4 | 10 | 7 |
| 5. Describe the pathophysiology and role of Transarterial chemo embolisation in the management of hepatocellular carcinoma. | 4 | 10 | 7 |
| 6. Discuss the advantages and approved indications for the use of Recombinant TSH in thyroid cancers. | 4 | 10 | 7 |
| 7. Discuss the scope and diagnostic potential of MammaPrint in the management of breast cancers. | 4 | 10 | 7 |
| 8. Discuss the role of Peptide receptor radiotherapy in the management of Neuroendocrine tumors. | 4 | 10 | 7 |
| 9. Discuss the therapeutic applications of Stereotactic Radiosurgery in oncology. | 4 | 10 | 7 |
| 10. Classify Biliary stents and discuss its role in the management of malignant obstructive jaundice. | 4 | 10 | 7 |

M.Ch. – SURGICAL ONCOLOGY
Paper – IV RECENT ADVANCES IN SURGICAL ONCOLOGY
Q.P.Code: 181804

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the steps of angiogenesis and drugs targeting angiogenic pathway
2. Histologic subtypes, role of immuno histochemical staining, evaluation and management of cancer of unknown primary site.

II. Write notes on:

(10X7=70)

1. Extralevator abdomino perineal excision – technique and advantages.
2. Discuss about Bladder preservation approaches.
3. Pathology, evaluation and management of Male breast cancer.
4. Discuss the etiology, pathology, evaluation and management of early stage epithelial ovarian cancer.
5. Discuss the role of Sentinel node biopsy in carcinoma penis.
6. Discuss the role and technique of Extra corporeal irradiation in management of bone tumours.
7. Discuss about evaluation and Management of brain metastasis.
8. Discuss the stepwise management of cancer pain.
9. Etiology, diagnosis and management of superior vena caval obstruction.
10. Role and types of Stereotactic radiotherapy.

M.Ch. – SURGICAL ONCOLOGY
Paper – IV RECENT ADVANCES IN SURGICAL ONCOLOGY
Q.P.Code: 181804

Time: Three Hours

Maximum: 100 marks

I. Elaborate on: **(2X15=30)**

1. Contraindications for breast conservative surgery and oncomammoplasty.
2. Classification of lesions of anal canal and Management of carcinoma of Anal region.

II. Write notes on: **(10X7=70)**

1. LASER surgery.
2. Intraoperative ultra sonography.
3. Monoclonal antibodies in cancer management.
4. Discuss on Mycosis Fungoides.
5. Importance of performance status.
6. Meig's syndrome.
7. C cell tumors.
8. Liposomal doxorubicin.
9. Plasmacytoma.
10. Glioblastoma multiforme.

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss about minimally invasive surgery in Cancer. What are the advantages and disadvantages of Robotic surgery in cancer?
2. Describe various types of pancreatic resection and post operative complications.

II. Write notes on:

(10 x 7 = 70)

1. PET scan.
2. Intra arterial chemotherapy.
3. Cryotherapy in cancer.
4. Discuss on Moore's law in oncologic informatics.
5. Venous ports in cancer management.
6. Nephron sparing surgery in renal tumors.
7. Tissue transfer in cancer.
8. Sentinel node in GI Cancers.
9. Role of VATS in cancer.
10. Tracheo esophageal puncture.

(LI 059)

FEBRUARY 2016

Sub. Code:1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the fertility preservation options in Oncology.
2. Describe in detail the organization of a Palliative care centre.

II. Write notes on:

(10 x 7 = 70)

1. Treatment of in-transit metastases in melanoma.
2. Short course Radiation therapy in Rectal cancer.
3. Samarium therapy.
4. Intensity gated radiation therapy.
5. RECIST criteria.
6. Reverse axillary mapping.
7. Rehabilitation of VII nerve paralysis.
8. Lutetium therapy.
9. Peritoneal carcinomatosis index.
10. Atypical bronchial carcinoid.

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the molecular genetics, screening, diagnosis and management of Hereditary colorectal cancers.
2. Etiopathogenesis and management of Superior Vena Cava Syndrome.

II. Write notes on:

(10 x 7 = 70)

1. Radiofrequency ablation in cancer surgery.
2. Intensity-Modulated Radiation Therapy (IMRT).
3. Regional therapy in cancer.
4. Neoplasms in acquired immunodeficiency syndrome.
5. Principles of Neo adjuvant chemotherapy.
6. Cellular immunity in cancer therapy.
7. MR Mammography.
8. Carcinoma of bladder extrophy.
9. Carcinoid syndrome.
10. BRCA 2.

(LK 059)

FEBRUARY 2017

Sub. Code:1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the fertility sparing treatment that is available for patients with special emphasis on recent advances.
2. What is prophylactic surgery in Oncology? Discuss the current recommendations.

II. Write notes on:

(10 x 7 = 70)

1. Tumour vaccines.
2. Dose dense chemotherapy.
3. Extended Pelvic nodal dissection.
4. Lapatinib.
5. Extra-levator abdomino-perineal excision.
6. PCI score.
7. IHC testing in Poorly differentiated carcinoma of unknown origin.
8. Impact factor.
9. Oncoplastic surgery.
10. Ovarian cancer screening trials.

(LL 059)

AUGUST 2017

Sub. Code:1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the current status of Sentinel node biopsy in Head and neck cancers.
2. Discuss the management of lymphedema after treatment for breast cancer. What are the etiological factors? Mention preventive measures available.

II. Write notes on:

(10 x 7 = 70)

1. Ovarian cryopreservation.
2. Trans Oral Robotic surgery.
3. Pertuzumab.
4. Thyroid incidentaloma.
5. Samarium therapy.
6. RIGS in head and neck squamous cell cancer.
7. Chemotherapy for mucinous carcinoma ovary.
8. Denosumab.
9. Trans anal endoscopic micro surgery.
10. Intensity Modulated Radiation therapy.

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss recent updates on role of Post mastectomy radiotherapy.
2. Discuss the role of PET-CT in the initial staging of solid malignancies.

II. Write notes on:

(10 x 7 = 70)

1. Adoptive cell therapy for melanoma.
2. EWS- FLI.
3. Exemestane.
4. Low dose CT for lung cancer.
5. Modular prosthesis.
6. Tyrosine Kinase Inhibitors.
7. PARP inhibitors.
8. Recombinant TSH.
9. New FIGO staging (2014) for carcinoma ovary.
10. DNA testing.

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P.Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Recent updates on role of mammographic screening for breast cancer.
2. Discuss the management of a male patient with multiple bone metastases with well differentiated thyroid cancer.

II. Write notes on:

(10 x 7 = 70)

1. Adjuvant systemic therapy in stage II, III melanoma.
2. MRI in rectal cancers.
3. New classification of hysterectomy.
4. Extended adjuvant hormonal therapy in breast cancer.
5. Imatinib in adjuvant therapy of Gastrointestinal stromal tumours.
6. DOTANOC scan.
7. Nicotine replacement therapy.
8. IHC in cancers of unknown primary.
9. Tissue microarray.
10. Virtual colonoscopy.

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the recommendations for cervical cancer screening with an emphasis on the evidences pertaining to the use of Visual Inspection after Acetic Acid (VIA).
2. Advances in the management of clinically neck node negative (N(0) neck) in early stage oral cancers.

II. Write notes on:

(10 x 7 = 70)

1. Role of inter-sphincteric resections in the management of Rectal Cancers.
2. Current status of Neoadjuvant chemoradiation in the management of soft tissue sarcomas.
3. Advances in the management of Radio-iodine refractory thyroid cancers.
4. Discuss about targeted therapy in Renal cancers.
5. Evidence based adjuvant treatment strategies for high risk endometrial cancers.
6. Advances in the management of estrogen positive metastatic breast cancer in a post-menopausal lady.
7. Role of cyto reductive surgery and hyperthermic intraperitoneal chemotherapy (HIPEC) in peritoneal metastasis from colonic cancers.
8. Newer Targeted therapies in the management of metastatic bone disease.
9. Advances in the management of pleural mesotheliomas.
10. Current status of Liver transplantation in the management of hepatocellular carcinomas.

(LP 059)

AUGUST 2019

Sub. Code: 1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Recent advances in managing Thyroid cancers.
2. Management of Peritoneal metastasis.

II. Write notes on:

(10 x 7 = 70)

1. Communicating news to cancer patients.
2. BRCA 1 and BRCA 2 - diagnostic and therapeutic implications.
3. Present day status of Nodal dissection in Gastric cancer.
4. Recent advances in management of Multiple Myeloma.
5. PORTEC trials.
6. Van Nes Rotations plasty and it's relevance as on date.
7. Enumerate Prophylactic surgical procedures in Oncology.
8. Meta analysis.
9. Impact factor.
10. Recent advances in pain management.

(LR 059)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Issues in management of cancer patients during COVID 19 pandemic and evolving protocols to overcome them
2. Issues in cancer genetic counselling and future directions.

II. Write notes on:

(10 x 7 = 70)

1. Mutational testing and driver mutations targeted in Non Small Cell lung Cancers
2. Soft tissue sarcomas of hands and feet
3. Toxicities of androgen deprivation therapy
4. Quality of Life after cancer treatment (QOL) and methods of assessing QOL
5. Somatic gene mutations in human colorectal cancers
6. Treatment of localised squamous cell carcinoma in anal region
7. Modest breakthrough in the treatment of advanced pancreatic cancer
8. Trans Oral Robotic Surgery
9. Video Assisted Thoracoscopic Surgery
10. REAL-2 trial in Stomach cancer

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the clinical application and dynamic risk stratification in the management of well differentiated thyroid cancers.
2. Role and current status of total neoadjuvant therapy in the management of rectal cancers.

II. Write notes on:

(10 x 7 = 70)

1. Management of early stage lung cancers in medically unfit patients.
2. Role of dynamic sentinel node biopsy in penile cancers.
3. Role of endoscopic surgery in early gastric cancers.
4. Role and current status of elastography in the evaluation of thyroid nodules and breast lumps.
5. Current status of partial HPV genotyping in management of cervical cancer screening.
6. Potential role of microwave ablation in oncology.
7. Potential indications for accelerated partial breast irradiation in breast cancers.
8. Risk assessment for a newly diagnosed renal cell carcinoma.
9. Recent advances in primary breast tumor localization techniques prior to neoadjuvant chemotherapy.
10. Role of adjuvant therapies in the management of gastrointestinal stromal tumours.

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the recent classification, pathophysiology and the management options for Barret's Esophagus.
2. Discuss the scope and potential advantages of the robotic system in urological oncology.

II. Write notes on:

(10 x 7 = 70)

1. Evidences favouring short course radiation in the rectal cancers.
2. Role of capsule enteroscopy in the management of small bowel tumors.
3. Current status of Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in the management of colo-rectal carcinomas.
4. Potential role of adjuvant targeted therapy in the management of early lung cancers.
5. Indication and surgical consideration in the performance of nipple sparing mastectomy.
6. Current status of the use of recombinant TSH in thyroid cancer management.
7. Role of prostatectomy in the management of metastatic prostate cancers.
8. Role of surgery in borderline resectable pancreatic cancers.
9. Current status of minimally invasive surgery in the management of cervical cancers.
10. Trans-anal approaches in the management of rectal cancers.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MCH 0222]

FEBRUARY 2022

Sub.Code :1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss surgical oncology considerations in COVID patients. Explain in detail the precautions & technical aspects of operating on an asymptomatic COVID positive cancer patient.
2. Discuss the principles of organ preservation treatment approaches in cancer management. Explain the various organ preserving surgical techniques in laryngeal cancer.

II. Write notes on:

(10 x 7 = 70)

1. Proton therapy
2. TAMIS
3. Microwave tumor ablation
4. CUSA
5. Mediastinoscopy
6. Sentinel node biopsy in Head & neck cancer. Technique & evidences
7. Colposcopy
8. Perforator flaps in Breast reconstruction
9. PSMA -PET
10. Radio Iodine therapy

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0822)

AUGUST 2022

Sub. Code: 1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Staging and clinical trials to define margins of excision for primary cutaneous melanomas.
2. Discuss about clinical trials on laparoscopic radical hysterectomy of cancer cervix.

II. Write notes on:

(10 x 7 = 70)

1. Extra mammary Paget disease.
2. Proton therapy for localized prostate cancer.
3. Immune checkpoint inhibitors.
4. Organ preservation strategy for urinary bladder cancer.
5. Fertility preservation in gynaecological cancers.
6. Sacral resections – indications and complications.
7. Modular prosthesis in reconstruction after resection of bone sarcomas.
8. Volume displacement and replacement techniques in conservative breast surgeries.
9. Ovarian cancer screening.
10. Bone marrow transplant for solid organ malignancies.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0223)

FEBRUARY 2023

Sub. Code: 1804

M.Ch. – SURGICAL ONCOLOGY

Paper IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are CDK4/8 inhibitors? What is the mechanism of action?
Discuss the indication and toxicity.
2. Discuss the impact of the Covid pandemic on oncology services in India in the past years and mention the salient changes in treatment strategies made by oncologists.

II. Write notes on:

(10 x 7 = 70)

1. Pembrolizumab.
2. Bi-directional chemotherapy.
3. Next generation sequencing.
4. Cancer vaccines.
5. Molecular classification in uterine cancers.
6. Trans oral robotic surgery.
7. 3D Tomosynthesis for breast cancer screening.
8. Abiraterone.
9. HPV vaccines in India.
10. Liquid biopsy.

THE TAMIL NAUD DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0124)

JANUARY 2024

Sub. Code: 1804

M.Ch. – SURGICAL ONCOLOGY

PAPER IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Recent concept of resected margin status and role of frozen section in oral cancers.
2. Role of Molecular studies and its application in the treatment of Colorectal cancer.

II. Write notes on:

(10 x 7 = 70)

1. Emerging trends in the management of Axilla in Breast cancer.
2. Prosthetic reconstruction in Limb salvage surgeries of bone sarcoma.
3. Role of Radio isotopes in the treatment of Neuroendocrine tumors.
4. Pain ladder.
5. Tissue Bank in Cancer.
6. Management of peritoneal metastasis in Gastric and Colonic cancer.
7. Short course Radiotherapy in colorectal cancer.
8. Proton therapy in oncology.
9. Uses of Indocyanine Green Dye in Cancer.
10. Enhanced Recovery in Cancer Surgery.

THE TAMIL NAUD DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0225)

FEBRUARY 2025

Sub. Code: 1804

M.Ch. BRACH VII – SURGICAL ONCOLOGY

PAPER IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Emerging concept of Adolescent and Young Adult (AYA) cancers.
2. Principles of Breast Oncoplasty.

II. Write notes on:

(10 x 7 = 70)

1. Molecular and genomics study of rectal cancer and its therapeutic implications.
2. GIST evaluation and Medical Therapy.
3. Her2 Neu directed therapies in various cancers.
4. VATS in Lung resection.
5. HPV virus in Head and Neck carcinoma.
6. TI-RADS.
7. Fertility preservation in Oncology.
8. FLOT trials.
9. Peritoneal surface malignancy.
10. Current status of Axilla management in Breast Cancer with evidence.

THE TAMIL NAUD Dr. M.G.R. MEDICAL UNIVERSITY

(MCH 0825)

AUGUST 2025

Sub. Code: 1804

M.Ch. BRANCH VII – SURGICAL ONCOLOGY

PAPER IV – RECENT ADVANCES IN SURGICAL ONCOLOGY

Q.P. Code: 181804

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the role of Human Papilloma virus in Head and neck Cancer and its behavior.
2. Recent developments in the Breast irradiation in Breast conservative treatment.

II. Write notes on:

(10 x 7 = 70)

1. PARP inhibitors.
2. Induction therapy in Head and neck cancers.
3. VATS – video Assisted Thoracoscopic Surgery.
4. Status of Recent trial of minimally invasive Surgery in Gynecological cancer.
5. Globocan trends in Female Cancers.
6. Monoclonal Antibodies.
7. Cervical Mediastinal Exploration in Lung Cancer.
8. Molecular Diagnosis of GIST (Gastrointestinal Stromal Tumor).
9. Management of Advanced Renal Cell Carcinoma.
10. Liver Transplant in Hepatocellular Carcinoma.
