

**QP Code:**

**Reg.No.:**.....

**M.Ch (Surgical Oncology) Degree Examinations  
(Model Question Paper)**

**Paper I – Basic Sciences**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Describe the surgical segmental anatomy of the liver with the help of neat labelled diagram. Discuss the bilirubin metabolism in detail

**Short essays:**

**(8x10=80)**

2. Metabolic emergencies in cancer.
3. Tobacco and cancer.
4. Thyroid hormone synthesis and role of recombinant TSH.
5. Humoral and cell mediated immunity in human malignant neoplasm.
6. FISH.
7. Mechanism of resistance to chemotherapy in cancers.
8. Febrile neutropenia.
9. Radiation sensitizers.

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**Paper II – Systemic Surgical Oncology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the staging and management of differentiated thyroid cancer

**Short essays:**

**(8x10=80)**

2. Principles of surgical technique of radical nephrectomy.
3. Bisphosphonates in metastatic breast cancer.
4. Lymphadenectomy for carcinoma stomach
5. Management of Wilm's tumor
6. Neo adjuvant chemotherapy in laryngeal cancer
7. Surgical management of epithelial ovarian cancer
8. Evaluation and management of castrate refractory prostate cancer.
9. Staging of bone sarcomaS

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**Paper III – Surgical oncology and related topics**

**Time: 3 hrs**

**Max marks:100**

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

**Essays:**

**(20)**

1. Discuss the metabolic emergencies in cancer in detail

**Short essays:**

**(8x10=80)**

2. Management of malignant pleural effusion
3. Radiation induced oral mucositis pathology and management
4. Surgical site infection definition and management
5. Febrile neutropenia
6. Management of cancer pain
7. Management of liver metastasis from colon cancer
8. Voice rehabilitation of post laryngectomy patient
9. AIDS related malignancies

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**Paper IV – Recent Advances in Surgical Oncology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the targeted therapy in breast cancer

**Short essays:**

**(8x10=80)**

2. Advantages of robotic surgery
3. Newer techniques in the management of osteoradionecrosis of mandible
4. Role and technique of extra corporeal irradiation in management of bone tumours
5. Proton therapy - advantages and disadvantage
6. Image guided surgery
7. Stem cells in oncology
8. RADPLAT regimen in head and neck cancer
9. Video assisted thoracoscopic surgery

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