

**POST-DOCTORAL DEGREE EXAMINATION – JANUARY 2024**

**M.Ch SURGICAL ONCOLOGY**

**Time: 3 Hours**

**Max. Marks: 100**

**PAPER – I**

**Basic Sciences as applied to Surgical Oncology**

**Q.P. Code: 1541**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Discuss mechanism of action of Capecitabine. Add a note on its adverse effects.
2. Role of Intra-operative Radiotherapy in Breast cancer management.
3. Elaborate the concept of Alpha and Beta errors in hypothesis testing.
4. Describe the mechanism of action of Cavitron ultrasonic needle aspirator.  
Discuss the various indications for its use.
5. Explain the association of Hepatitis C and Hepatocellular cancer.
6. Discuss the concept of Image Guided Radiotherapy.
7. Mechanism of carcinogenesis of Areca Nut. Add a note on Tobacco cessation.
8. Explain the role of Parathyroid scintigraphy in evaluation of parathyroid tumours. Add a note on PTH.
9. Describe testing methodology for detection of Epstein Barr Virus.
10. Describe the aetiopathogenesis of Ewing's Sarcoma.

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**PAPER – II**

**Q.P. Code: 1542**

Answers should be specific to the Questions asked.  
Draw neat, labeled diagrams wherever necessary.  
All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Discuss the role of PET-CT in the staging of locally advanced breast cancers.
2. Describe the evidence for prostate-specific membrane antigen (PSMA) PET imaging for detecting and treating prostate cancer.
3. Management of Sporadic Renal Angiolipomas.
4. Principles of management of borderline ovarian tumours.
5. Explain the role of Ventilation perfusion scan in evaluation of pulmonary function.
6. Management options of cervical intra-epithelial neoplasia Type 2.
7. Explain the mechanism of Voice production in a Voice prosthesis.
8. Management of Superior Vena Cava syndrome in a patient with lung cancer.
9. Discuss the types of Marginal Mandibulectomies.
10. Describe the criteria for secondary cytoreduction in Ovarian cancers.

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**PAPER – III**

**Q.P. Code: 1543**

Answers should be specific to the Questions asked.  
Draw neat, labeled diagrams wherever necessary.  
All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Discuss the evidences comparing transhiatal and transthoracic approaches to esophagectomy.
2. Classification of Neuroendocrine tumours.
3. Discuss the management options of pancreatic stump following pancreaticoduodenectomy with evidence.
4. Management options of Malignant ascites in advanced Ovarian cancers.
5. Describe the management options of high-grade Barret's oesophagus.
6. Describe the optimisation of a patient with a functional adrenal tumour.
7. Patient selection for Inter-sphincteric resections in rectal cancers. Add a note on the available evidence for ISR.
8. Management of catheter induced central venous thrombosis.
9. Management of chondronecrosis of the larynx.
10. Complications following retroperitoneal lymph node dissection and its management.

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**PAPER – IV**

**Q.P. Code: 1544**

Answers should be specific to the Questions asked.  
Draw neat, labeled diagrams wherever necessary.  
All questions are compulsory.

**Question Number**

**Marks**

**ESSAY QUESTIONS:**

**10 X 10 = 100**

1. Role of Neoadjuvant therapies in the management of Retroperitoneal sarcomas.
2. Advances in the management of metastatic renal cell carcinomas.
3. Role of Dynamic sentinel lymph node biopsy in carcinoma penis.
4. Describe the role of endoscopic ultrasound in lung cancer staging.
5. Role of Surgery in Small cell lung cancers.
6. Explain the current role of COX 2 inhibitors in Oncology.
7. Advances in the management of Superior Sulcus tumour of the lung.
8. Explain the role of Sentinel lymph node biopsy in Carcinoma Endometrium.
9. Role of endoscopic therapies in the management of stomach cancers.
10. Patient selection of trans-anal endoscopic rectal cancer resections.

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