

**SURGICAL ONCOLOGY**

**PAPER – I**

**Time : 3 hours**  
**Max. Marks : 100**

**SURG ONCO/D/12/47/I**

**Attempt all questions in order.**  
**Each question carries 10 marks.**

**Write short notes on:**

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|--|---------|
| 1. What are telomeres and telomerase? Describe their role in cancer?   | 3+3+4   |
| 2. What is seed and soil hypothesis for cancer metastasis and describe the metastatic cascade?                                   | 5+5     |
| 3. Tumour lysis syndrome: its definition, causes, pathogenesis and treatment.  | 1+2+3+4 |
| 4. HER 2 neu amplification and its usefulness in solid tumors.   | 5+5     |
| 5. Define and discuss clinical applications of miRNA profiling.  | 2+8     |
| 6. Field cancerization: Definition, molecular mechanisms in field cancerization and implications.                                | 2+5+3   |
| 7. What are the features of the different phases of clinical trials? What is the importance of randomization and stratification? | 4+6     |
| 8. Define retroviruses and describe mechanisms of retroviral oncogenesis.  | 10      |
| 9. National Cancer Registry Programme (NCRP) in India.   | 10      |
| 10. Describe hereditary colorectal cancer syndrome.  | 10      |

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**PAPER – II**

Time : 3 hours  
Max. Marks : 100

**SURG ONCO/D/12/47/II**

Attempt all questions in order.  
Each question carries 10 marks.

Write short notes on:

1. Discuss the neoadjuvant strategies for cancer of the rectum. 10
2. List the malignant tumors of the major salivary glands. Describe management (investigations and treatment) of malignant parotid tumors. 2+8
3. Three field lymphadenectomy for carcinoma esophagus. 10
4. Indications, contraindications, methods, complications and results of radical prostatectomy. 1+2+3+2+2
5. Neoadjuvant chemotherapy for squamous cell carcinoma of head and neck with special reference to organ conservation. 10
6. What are borderline resectable pancreatic tumors and discuss the approach in their management. 10
7. Current status of retroperitoneal lymph node dissection in testicular cancers: Its advantages, drawbacks and modifications. 4+3+3
8. a) What is superior vena cava syndrome (SVCS)? 1  
b) What are the clinical features of SCVS. 2  
c) Enumerate the causes of SCVS. 2  
d) Brief description of investigation and treatment. 5
9. Discuss surgery for FIGO stage 1 cancer ovary. 10
10. Role of radiotherapy in extremity soft tissue sarcomas. 10

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**SURGICAL ONCOLOGY**

**PAPER – III**

Time : 3 hours  
Max. Marks : 100

SURG ONCO/D/12/47/III

Attempt all questions in order.  
Each question carries 10 marks.

Write short notes on:

1. Describe limb sparing surgery for extremity osteosarcoma. 10
2. Discuss the role of surgery in metastatic lung cancer. 10
3. Intra-operative radiotherapy. 10
4. What are the non-resectional options available for treatment of hepatocellular carcinomas which are not primarily resectable? 10
5. What is the role of neoadjuvant chemotherapy for gastric carcinoma? 10
6. Define photodynamic therapy (PDT). Describe its mechanisms of cytotoxicity and its clinical use in cancer treatment. 1+4+5
7. What are the special concerns in the management (diagnosis & treatment) of breast cancer during pregnancy? 10
8. Epidermal growth factor (EGFR) targeting in treatment of colon carcinoma. 10
9. Contemporary treatment and advances in management of malignant ascites. 10
10. AIDS related malignancies. 10

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