

**SURGICAL ONCOLOGY**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

SURGONCO/D/20/47/I

**Important Instructions:**

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *Attempt all questions in order.*
- *Each question carries 10 marks.*
- *Read the question carefully and answer to the point neatly and legibly.*
- *Do not leave any blank pages between two answers.*
- *Indicate the question number correctly for the answer in the margin space.*
- *Answer all the parts of a single question together.*
- *Start the answer to a question on a fresh page or leave adequate space between two answers.*
- *Draw table/diagrams/flowcharts wherever appropriate.*

**Write short notes on:**

1. a) Cancer cachexia syndrome. 5+5  
b) Role of nutritional supplementation in cancer patients.
2. a) Role and rationale of lymphadenectomy in solid tumors. 5+5  
b) Describe various methods of sentinel lymph node detection.
3. a) Pre-habilitation and its advantages in cancer surgery. 5+5  
b) ERAS Protocols for colorectal cancer surgery.
4. a) Field cancerization. 5+5  
b) Margin assessment methods in cancer surgery.
5. a) Mechanism of viral carcinogenesis with examples. 5+5  
b) HPV vaccination in cervical cancers.
6. a) Radiosensitizers and their role in radiation oncology practice. 5+5  
b) Proton beam therapy.
7. a) What are TKIs (tyrosine Kinase Inhibitor)? 5+5  
b) Discuss their mechanism of action, indications for use and toxicity.
8. a) Define pharmacokinetics, pharmacodynamics and 5+5  
pharmacogenomics.  
b) Phases of anti-cancer drug development.

**P.T.O.**

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| 9.  | a) Clavien-Dindo classification for surgical morbidity assessment.                   | 5+5 |
|     | b) Classification of Surgical Site Infection (SSI) and principles of SSI management. |     |
| 10. | a) Principles of palliative surgery.   | 5+5 |
|     | b) Principles of cancer pain management.   |     |

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