

SURGICAL ONCOLOGY

PAPER - I

SURG ONCO/D/13/47/I

Time : 3 hours

Max. Marks : 100

Important instructions:

- 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) What are dual kinase inhibitors? 2+4+4
b) What is their mechanism of action?
c) Discuss their utility in clinical practice.
2. What are the aetiological factors and predisposing conditions for carcinoma of oesophagus? 10
3. Discuss the clinical features and genetics of Von Hippel-Lindau syndrome/disease. 5+5
4. a) Total Prostate Specific Antigen (PSA) threshold 3+3+4
b) PSA Velocity
c) Potential pitfalls of PSA screening
5. a) Describe the molecular markers and alterations in sporadic and hereditary breast cancer. 4+4+2
b) Describe the markers of basal/myoepithelial phenotype.
c) Discuss briefly the role of apoptotic markers in breast cancers.
6. a) Define cancer screening and describe principles of cancer screening. 3+3+2+2
b) Role of breast cancer screening in India.
c) Role of cervix cancer screening in India.
d) Role of oral cancer screening in India.
7. What is the role of surgery in cancer prevention and in what situations it is used? 10
8. K-ras mutation and its utility in clinical practice. 10
9. a) Cell cycle. 3+3+4
b) Magnetic Resonance Spectroscopy in surgical oncology practice.
c) Thyroglobulin in management of thyroid cancer.
10. What are cancer stem cells and describe their role in solid tumours? 10
