



SURGICAL ONCOLOGY

PAPER – I

SURG ONCO/D/14/47/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. Explain tobacco induced carcinogenesis. Name important tobacco carcinogens in humans and biomarkers in tabulated form. Explain neurobiological basis of tobacco dependence and its treatment. 3+3+4
2. The role of tumor markers in diagnosis and therapy of cancer. 10
3. a) Screening for cervical cancer. 5+5
b) Screening for prostatic cancer.
4. Indications and impact of surgery for prevention of cancer. 10
5. a) Apoptosis. 3+3+4
b) Telomerase as a treatment target.
c) Genomic taxonomy in cancer.
6. Biopsy techniques and bring out the optimal methods for relevant situations. 10
7. Steps and critical checkpoint, in design and conduct of a randomized control trial. 10
8. a) Radio sensitization in treatment of cancer. 5+5
b) LENT (Late effects on normal tissues).
9. Surgical anatomy of the liver and techniques utilized to prognosticate and improve outcome of liver resection. 10
10. a) Adenoma carcinoma sequence in colon cancer. 3+4+3
b) Describe HNPCC and the criteria for clinical diagnosis and genetic testing.
c) Role of K Ras mutation in management of metastatic colorectal cancer.
