

SURGICAL ONCOLOGY

PAPER – I

SURGONCO/J/17/47/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 the factors contributing to cancer associated thrombosis? 4+(3+3)
b) Prophylaxis and management of thrombosis in a surgical patient.
2. a) What is “sequencing”? 3+3+4
b) What is Next Generation Sequencing?
c) Impact of Next Generation Sequencing in oncology.
3. a) Meta-analysis. 6+4
b) Impact factor.
4. a) What is standard fractionation? 2+3+5
b) What are the altered fractionation techniques available?
c) Advantages and disadvantages of hyperfractionation.
5. a) What is Minimally Invasive Surgery (MIS)? 3+7
b) Impact of MIS on outcomes in oncology.
6. a) Treatment of neuropathic pain. 5+5
b) Long acting opioids.
7. a) Name the different phases of cell cycle. 2+4+4
b) Explain role of cyclin dependent kinases.
c) Regulation of cell cycle.
8. a) Advantages of a cohort study. 6+4
b) Median survival.
9. a) What is prophylactic surgery in oncology? 6+4
b) Indications, techniques and current status of contra-lateral prophylactic mastectomy.
10. a) Classify platinum compounds. 3+7
b) Their mechanisms of action, indications and their toxicity.
