**SURGICAL ONCOLOGY**

**PAPER – I**

**SURG. ONCO/J/15/47/I**

<table>
<thead>
<tr>
<th>Time</th>
<th>3 hours</th>
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<tbody>
<tr>
<td>Max. Marks</td>
<td>100</td>
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**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:

<table>
<thead>
<tr>
<th>Question</th>
<th>Notes</th>
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| 1. | a) What are the platinum compounds?  
   b) Write about their mechanism of action, their indications and toxicity. |
| 2. | a) What is Ki-67?  
   b) How is it evaluated?  
   c) Write about its importance in 2 malignancies. |
| 3. | a) Define chemoprevention.  
   b) Role of chemoprevention in:  
   i. Breast cancer.  
   ii. Head and neck cancer.  
   iii. Colorectal cancer. |
| 4. | a) What are retroviruses?  
   b) Mechanisms of retroviral oncogenesis. |
| 5. | a) What is the concept of ‘Sentinel Node Biopsy’?  
   b) Techniques available to detect sentinel node(s).  
   c) Discuss two malignancies wherein it has made significant impact. |
| 6. | a) What is ‘adjuvant therapy’?  
   b) What are the available modalities?  
   c) List the malignancies in which chemotherapy has made significant survival benefits. |
| 7. | a) What is brachytherapy?  
   b) What is the principle behind brachytherapy?  
   c) What are the types of brachytherapy?  
   d) What are the advantages and limitations of HDR (High Dose Rate) brachytherapy? |
| 8. | a) What is the definition of margin?  
   b) Define the types of margin.  
   c) Management of positive margin after breast conservation. |

**P.T.O.**
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<tr>
<td>9.</td>
<td>a) What is Randomized Clinical Trial? Discuss its advantages.</td>
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<td>5+5</td>
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<td></td>
<td>b) Power of test.</td>
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<td>10.</td>
<td>a) Non-inferiority trials.</td>
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<td>5+5</td>
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<td>b) ‘P’ value.</td>
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