

SURGICAL ONCOLOGY

PAPER – I

Time : 3 hours
Max. Marks : 100

SURG.ONCO/D/17/47/I

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 is gene sequencing? 4+6
b) Its usefulness in diagnosis and treatment of cancer
2. a) Draw cell cycle 2+4+4
b) Effects of Radiotherapy in various phases of cell cycle
c) Name check points and their significance
3. Viral etiology for cancer. Discuss on pathogenesis of cancer due to virus in 4
a) HIV & Cancer 3
b) Cancer Cervix & virus 3
4. a) Basic surgical principles in cancer surgery 6+4
b) Impact of HIPEC in management of Psuedomyxoma peritonei.
5. Design of phase III clinical trial and analysis of the results of clinical trials. 6+4
6. a) Mention IHC markers of breast cancer. 5+5
b) prognosis based on molecular subtypes
7. a) Enumerate types of delivery of radiation in cancer. 4+6
b) Advantages of IORT and proton beam therapy.
8. a) Mechanism of PARP inhibitors 4+4+2
b) Mention PARP Inhibitors
c) Future prospects
9. a) Management of head and neck squamous cell carcinoma- Metastases to regional lymph nodes. 5+5
b) Types of Neck Dissections for lymph nodal metastases.
10. Discuss on Tumour micro environment during cancer invasion and metastases. 5+5