

**MEDICAL ONCOLOGY**

PAPER - I

MED ONCO/D/13/17/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.

1. Discuss briefly the pharmacology of drugs that are active in glioblastoma multiforme. 10
2. Discuss briefly various monoclonal antibodies used in the treatment of B-cell Non-Hodgkin's lymphoma. 10
3. Briefly give molecular biology of colon cancer. How mutation analysis is useful in its management? 5+5
4. Discuss briefly the endpoints used to assess and compare treatment and toxicity response in a phase 3 drug trial. 10
5. What are the different methods of delivering brachytherapy? Illustrate each method with examples. 10
6. Discuss briefly approach to diagnosis of small round cell tumour in a 5 years old child with proptosis. 10
7. Discuss briefly pathogenesis of Graft Versus Host Disease (GVHD). What are various cytokines involved in GVHD? 6+4
8. What are dendritic cells? Classify them. Describe briefly about plasmacytoid dendritic cells. 2+3+5
9. Enumerate differences in biology of childhood and adult cancers. How will you treat resistant acute lymphoblastic leukemia (ALL)? 4+6
10. Discuss the indications of PET-CT scan in various solid tumours in adults. How will you assess response in Prostate cancer with bone metastasis? 5+5

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