1. Discuss briefly the pharmacology of drugs that are active in glioblastoma multiforme.

2. Discuss briefly various monoclonal antibodies used in the treatment of B-cell Non-Hodgkin's lymphoma.

3. Briefly give molecular biology of colon cancer. How mutation analysis is useful in its management?

4. Discuss briefly the endpoints used to assess and compare treatment and toxicity response in a phase 3 drug trial.

5. What are the different methods of delivering brachytherapy? Illustrate each method with examples.

6. Discuss briefly approach to diagnosis of small round cell tumour in a 5 years old child with proptosis.

7. Discuss briefly pathogenesis of Graft Versus Host Disease (GVHD). What are various cytokines involved in GVHD?

8. What are dendritic cells? Classify them. Describe briefly about plasmacytoid dendritic cells.

9. Enumerate differences in biology of childhood and adult cancers. How will you treat resistant acute lymphoblastic leukemia (ALL)?

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?