

PEDIATRIC HEMATO ONCOLOGY
THEORY PAPER

Time : 3 hours

Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

Write short notes on:

1. a) Briefly describe approach to a child with microcytic hypochromic anemia. 5+5
b) Briefly write on types of oral iron preparations, their advantages and disadvantages.
2. a) Altman staging in germ cell tumors. 3+3+4
b) Pathology of dysgerminoma.
c) Growing teratoma syndrome.
3. a) Molecular classification of medulloblastoma. 5+5
b) Late effects in a child with medulloblastoma who was treated with surgery, radiotherapy and chemotherapy at the age of 6 years and is currently 15 years of age.
4. a) Pharmacology, side effects and role of romiplostim in aplastic anemia. 5+5
b) Diagnosis of PNH and its relationship with aplastic anemia.
5. a) Diagnosis of hereditary spherocytosis. 5+5
b) Hemolytic disease of the newborn.
6. a) ATRA syndrome. 3+3+4
b) Diagnosis of microgranular variant of acute promyelocytic leukemia.
c) Post-transplant therapy of neuroblastoma.
7. a) Rituximab in childhood lymphomas. 5+5
b) Diagnosis and management of B-lymphoblastic lymphoma.
8. a) NTRK fusion positive childhood cancers and role of TRK inhibitor therapy. 6+4
b) Principles of metronomic therapy.
9. a) RECIST Criteria. 4+3+3
b) Phase 4 clinical trial.
c) Confidence intervals.
10. a) Dose dense chemotherapy in solid tumors. 3+3+4
b) Hyperfractionated radiotherapy.
c) How to choose a stem cell donor in haploidentical transplantation?
