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:

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1	,	Hematological problems in Trisomy 21. Hematological manifestations of SLE.	5+5
2	,	Principles of flow cytometry. Early precursor T cell ALL.	5+5
3	,	Staging and risk stratification of Rhabdomyosarcoma. Management of testicular Rhabdomyosarcoma in a 12-year-old boy.	(2+3)+5
4	b)	Evaluation and management of pulmonary Aspergillosis in leukemic child. Chronic granulomatous disease. IV Immunoglobulin therapy.	4+3+3
5	a)	In a patient with hereditary spherocytosis, describe: Peripheral smear picture. Eosin-5'-maleimide binding test, and current role of osmotic fragility test monitoring. Indications of splenectomy, and the role of partial vs. total splenectomy.	2+3+5
6	,	Image defined risk stratification in Neuroblastoma Role of immunotherapy in Neuroblastoma Opsomyoclonus	3+3+4
7	·	How will you risk stratify a newly diagnosed case of childhood acute promyelocytic leukemia? Describe induction therapy of this disease, side effects associated with induction treatment and how will you manage them?	3+(3+2+2)
8		Hepcidin. Genetic counselling for beta thalassemia.	5+5
9	,	What are the components of normal Hemostasis? Discuss mechanism of primary hemostasis (with the help of a diagram). Discuss pathophysiology of Glanzmann thrombasthenia.	(3+3)+4
10	,	Car-T cell therapy Mechanism of action of Blinatumomab in relapsed B-ALL (with the help of a diagram). Mechanism of action of Ruxolitinib in GVHD (with the help of a diagram).	4+3+3
