Write short notes on:

1. a) Classify immune hemolytic anemias giving the mechanism of hemolysis.
   b) Give the red cell parameters in cold agglutinin disease and how will you diagnose this condition.

2. a) What is anaemia of chronic diseases?
   b) Discuss the current concept in pathogenesis.
   c) Management of anaemia of chronic diseases.

3. a) 5q deletion syndrome.
   b) WHO classification of acute myeloid leukemia.

4. a) Morphology and diagnosis of T-ALL.
   b) Minimal residual disease (MRD) in ALL.

5. a) Mechanism of iron absorption.
   b) Congenital dyserythropoietic anaemias.

    b) Application of Gel Card techniques in Transfusion Medicine.

    b) Role of platelet aggregometry in diagnosis of platelet function disorders.

8. a) Bone marrow microenvironment in health and disease.
    b) Molecular abnormalities in myeloproliferative neoplasms.

    b) Physiology and regulation of hematopoietic cell production.

10. a) Thalassemia intermedia.
    b) Clinical picture and morphology of acute promyelocytic leukemia.

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